

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P285838

Luminaire Tested: **PRV-XL-C150-D-UNV-T4-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T4-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41835 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

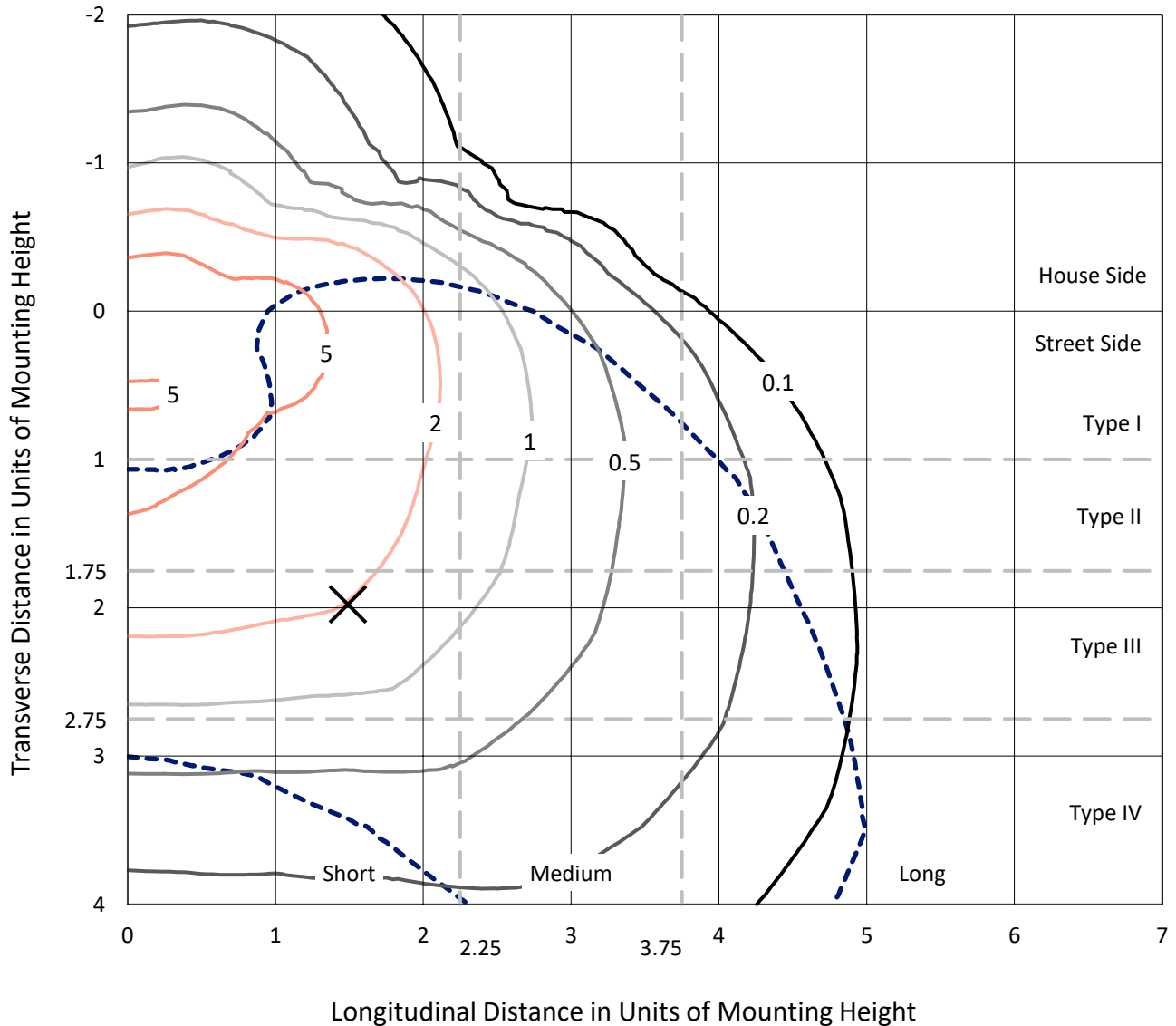
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: PRV-XL-C150-D-UNV-T4-BZ-7050

Iso-Footcandle Lines of Horizontal Illumination

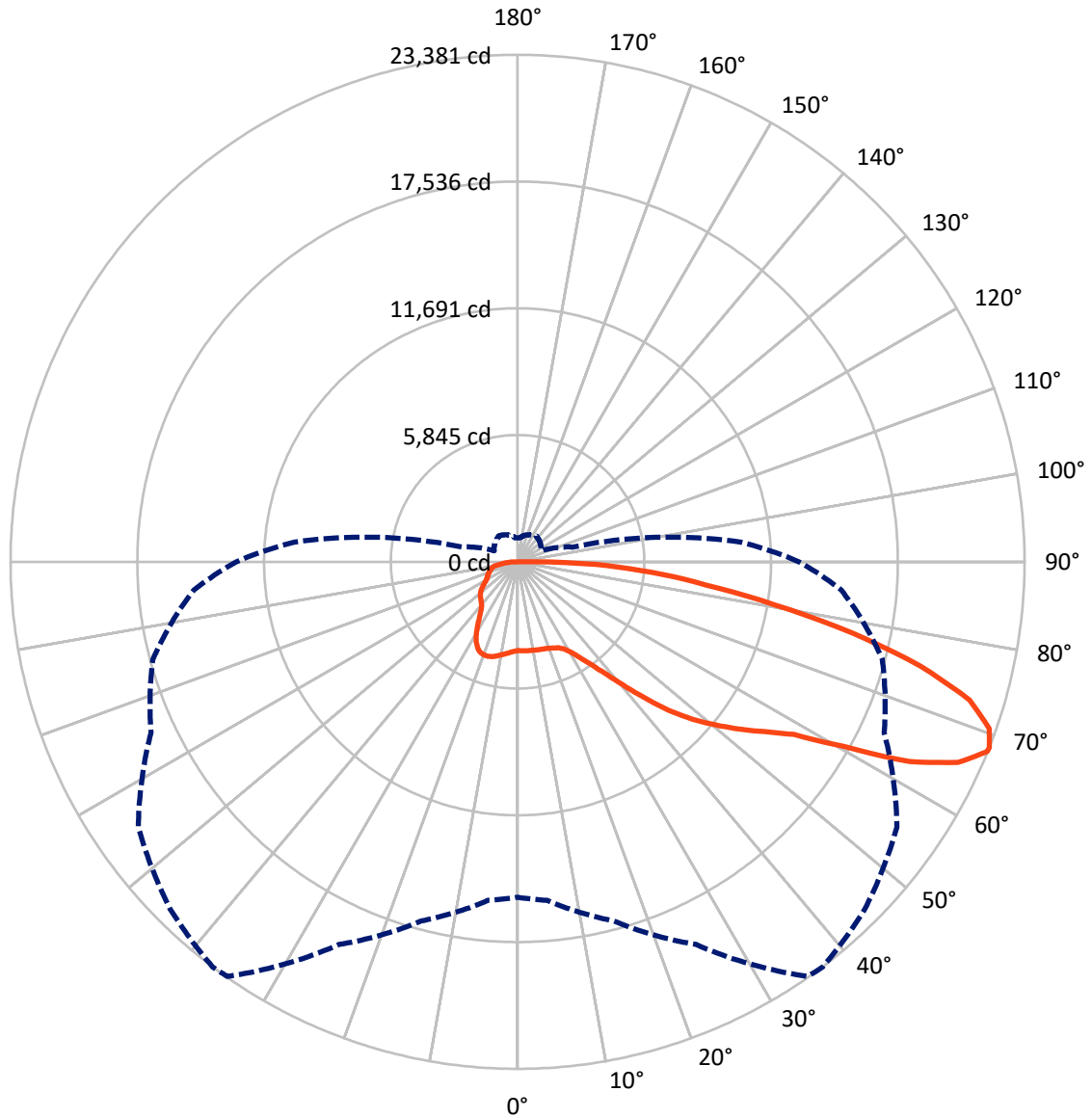
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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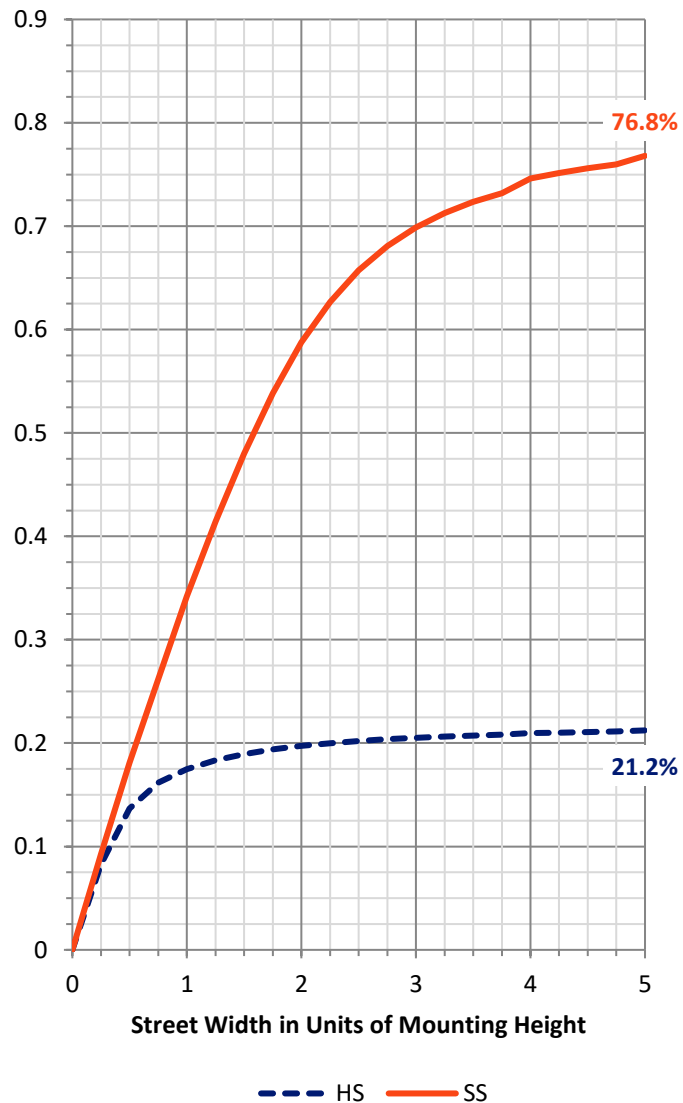
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9033.4	0.0	9033.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32801.6	0.0	32801.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	41835.0	0.0	41835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	0.9
10°-20°	1234.8	3.0
20°-30°	2109.1	5.0
30°-40°	3360.2	8.0
40°-50°	5827.8	13.9
50°-60°	8447.7	20.2
60°-70°	10653.4	25.5
70°-80°	7894.1	18.9
80°-90°	1910.7	4.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	41835.0	100.0
0°-180°	41835.0	100.0

Coefficient of Utilization

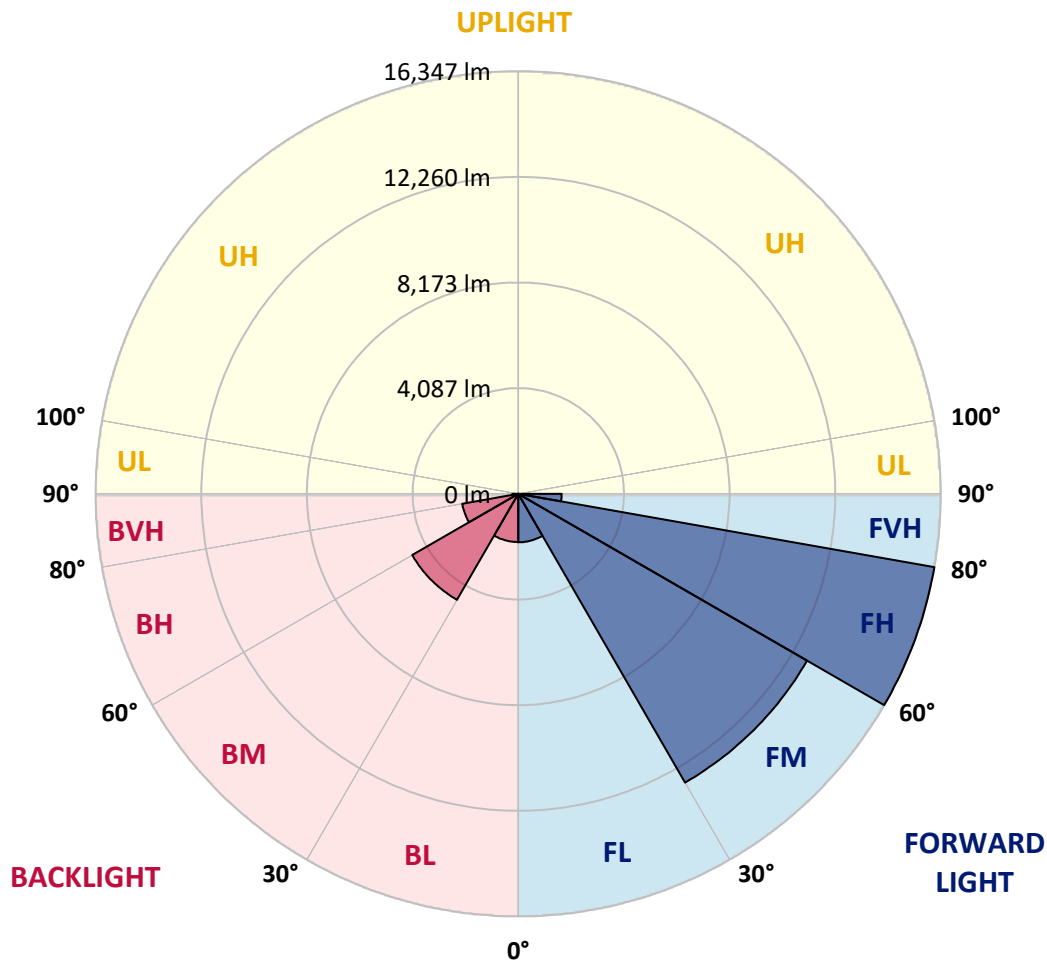


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1875.4	4.5			
FM (30°-60°)	12900.1	30.8			
FH (60°-80°)	16347.0	39.1			G5
FVH (80°-90°)	1679.1	4.0			G5
BL (0°-30°)	1865.7	4.5	B3/2500		
BM (30°-60°)	4735.5	11.3	B3/5000		
BH (60°-80°)	2200.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	231.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6
2.5°	4089.2	4100.4	4103.6	4097.2	4103.6	4110.0	4095.6	4094.0	4087.6	4062.0	4065.2
5°	4090.8	4105.2	4106.8	4102.0	4113.3	4119.7	4113.3	4106.8	4100.4	4063.6	4071.6
7.5°	4090.8	4102.0	4105.2	4102.0	4118.1	4129.3	4129.3	4134.1	4134.1	4092.4	4098.8
10°	4076.4	4086.0	4090.8	4098.8	4126.1	4142.1	4151.7	4174.2	4187.0	4158.1	4159.7
12.5°	4010.7	4018.7	4034.7	4081.2	4145.3	4164.6	4191.8	4231.9	4263.9	4263.9	4267.1
15°	3959.4	3967.4	3997.8	4060.4	4158.1	4183.8	4236.7	4304.0	4363.3	4395.4	4421.0
17.5°	3972.2	3981.8	4026.7	4079.6	4177.4	4203.0	4278.4	4376.1	4473.9	4542.9	4594.1
20°	4012.3	4018.7	4070.0	4130.9	4235.1	4252.7	4326.5	4446.7	4582.9	4696.7	4780.1
22.5°	4126.1	4122.9	4164.6	4188.6	4296.0	4312.0	4397.0	4520.4	4696.7	4868.3	4990.1
25°	4220.7	4235.1	4268.7	4288.0	4376.1	4390.6	4496.4	4632.6	4836.2	5057.4	5253.0
27.5°	4324.8	4337.7	4371.3	4414.6	4538.0	4546.1	4619.8	4788.1	5014.1	5285.0	5597.6
30°	4560.5	4558.9	4592.5	4639.0	4805.7	4820.2	4889.1	5062.2	5272.2	5610.4	5987.1
32.5°	4967.6	4964.4	4969.2	5033.4	5214.5	5248.2	5336.3	5565.6	5828.4	6155.5	6573.8
35°	5802.8	5769.1	5705.0	5653.7	5756.3	5794.8	5987.1	6270.9	6740.5	7383.3	7901.1
37.5°	7183.0	7130.1	6913.7	6620.3	6501.7	6496.9	6631.5	7062.7	7793.7	9082.5	9550.6
40°	8505.4	8507.0	8213.7	7816.1	7445.9	7426.6	7349.7	7883.5	8933.4	10677.5	10897.1
42.5°	9759.0	9750.9	9409.5	9045.6	8603.2	8545.5	8321.1	8731.4	10071.5	11990.3	12033.6
45°	10889.1	10863.4	10496.3	10262.3	9882.4	9767.0	9468.8	9598.7	11137.5	13043.5	12891.2
47.5°	11980.7	11955.0	11496.6	11270.6	10937.2	10841.0	10525.2	10582.9	12157.0	13920.3	13585.3
50°	13107.6	13099.6	12435.9	12216.3	11862.1	11822.0	11631.2	11672.9	13221.4	14649.7	14231.3
52.5°	14442.9	14236.1	13490.7	13070.7	12819.1	12817.5	12604.3	12711.7	14398.0	15300.5	14680.1
55°	15875.9	15614.7	14851.6	14247.3	13814.5	13820.9	13489.1	13662.2	15431.9	15882.4	15109.7
57.5°	16898.6	16844.1	16616.5	16012.2	15117.7	15011.9	14502.2	14638.4	16339.2	16485.1	15419.1
60°	17852.4	18084.9	18237.1	18044.8	17594.3	17288.2	15874.3	15670.8	17139.1	17015.7	15581.0
62.5°	18453.5	18573.8	19283.9	19548.4	20255.3	20279.3	18588.2	16921.1	17820.4	17349.1	15653.1
65°	17791.5	17969.4	19146.0	20180.0	22196.5	22311.9	21598.6	19006.6	18363.8	17464.5	15516.9
67.5°	15944.9	16130.8	17544.7	19665.4	23270.5	23349.1	22608.5	21170.6	18634.7	17440.5	15117.7
68°	15472.0	15670.8	17145.5	19471.4	23344.2	23381.1	22648.5	21350.1	18652.3	17413.2	14987.9
70°	13514.8	13710.3	15204.3	18258.0	23052.5	23076.5	22395.3	21539.3	18560.9	17179.2	14133.5
72.5°	10616.6	10813.7	11991.9	15488.0	21587.4	21797.4	21449.5	21000.7	18174.6	16267.1	12118.6
75°	7522.8	7724.8	8951.1	12121.8	18610.6	19194.1	19888.2	19968.4	16728.7	13970.0	9028.0
77.5°	5304.3	5469.4	6530.6	9061.7	15020.0	15775.0	17220.8	17339.5	14010.1	10659.8	4762.5
80°	3443.2	3584.3	4534.8	6641.2	11353.9	12006.3	13594.9	13104.4	9956.1	5796.4	828.7
82.5°	2079.1	2184.9	2888.6	4594.1	8308.3	8742.7	9390.3	7867.4	4619.8	819.1	290.1
85°	1192.6	1264.8	1784.1	2951.1	5854.1	6224.4	6314.2	3949.8	868.8	226.0	163.5
87.5°	610.7	647.6	957.0	1813.0	3459.2	3617.9	3167.5	1413.8	173.1	101.0	81.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6
2.5°	4049.1	4060.4	4068.4	4095.6	4124.5	4138.9	4124.5	4146.9	4154.9	4148.5	4138.9
5°	4058.8	4076.4	4089.2	4143.7	4175.8	4199.8	4183.8	4215.8	4227.1	4214.2	4214.2
7.5°	4086.0	4110.0	4130.9	4203.0	4239.9	4272.0	4262.3	4284.8	4294.4	4278.4	4288.0
10°	4158.1	4182.2	4209.4	4299.2	4323.2	4353.7	4336.1	4353.7	4356.9	4345.7	4353.7
12.5°	4283.2	4299.2	4352.1	4443.5	4446.7	4454.7	4417.8	4384.2	4369.7	4348.9	4363.3
15°	4443.5	4472.3	4544.5	4621.4	4600.6	4582.9	4491.6	4382.6	4313.6	4262.3	4259.1
17.5°	4621.4	4672.7	4762.5	4812.2	4764.1	4683.9	4530.0	4345.7	4179.0	4087.6	4058.8
20°	4804.1	4884.3	4983.7	4993.3	4911.5	4757.7	4523.6	4251.1	3975.4	3805.5	3763.8
22.5°	5027.0	5131.1	5220.9	5172.8	5009.3	4783.3	4464.3	4084.4	3706.1	3448.0	3409.5
25°	5321.9	5424.5	5440.5	5299.5	5046.2	4735.2	4328.1	3835.9	3356.6	3036.1	3005.6
27.5°	5677.8	5732.3	5628.1	5365.2	5001.3	4590.9	4095.6	3491.3	2967.1	2688.2	2641.7
30°	6072.1	6052.9	5765.9	5366.8	4869.9	4345.7	3743.0	3100.2	2659.3	2418.9	2374.0
32.5°	6572.2	6445.6	5905.4	5294.7	4653.5	4015.5	3327.8	2787.6	2447.8	2202.5	2159.2
35°	7566.1	7181.4	6094.5	5180.8	4366.5	3619.5	2963.9	2561.6	2266.6	1984.5	1944.4
37.5°	9077.7	8281.0	6436.0	5055.8	4047.5	3214.0	2685.0	2385.2	2124.0	1822.6	1760.1
40°	10403.4	9496.1	6981.0	4938.8	3722.1	2906.2	2524.7	2300.3	2045.4	1740.8	1676.7
42.5°	11421.3	10469.1	7604.6	4799.3	3382.3	2678.6	2457.4	2289.1	2035.8	1740.8	1681.5
45°	12243.6	11272.2	8159.2	4647.0	3053.7	2499.1	2396.5	2268.2	2016.6	1731.2	1675.1
47.5°	12892.8	11871.7	8596.8	4472.3	2712.2	2377.2	2333.9	2196.1	1966.9	1702.4	1646.3
50°	13455.4	12301.3	8842.1	4267.1	2409.3	2281.0	2245.8	2080.7	1867.5	1617.4	1580.5
52.5°	13848.2	12650.7	8935.0	4182.2	2192.9	2172.0	2125.6	1963.7	1760.1	1516.4	1474.7
55°	14143.1	12830.3	8858.1	3988.2	1976.5	2003.7	1982.9	1873.9	1684.7	1453.9	1412.2
57.5°	14293.8	12889.6	8638.5	3257.3	1771.3	1803.4	1817.8	1824.2	1673.5	1471.5	1433.1
60°	14346.7	12796.6	8159.2	2325.9	1551.7	1615.8	1696.0	1720.0	1623.8	1404.2	1372.2
62.5°	14266.6	12554.6	7219.8	1607.8	1385.0	1498.8	1604.6	1598.2	1495.6	1304.8	1261.5
65°	13954.0	11961.5	5490.2	1296.8	1328.9	1445.9	1562.9	1484.4	1385.0	1208.6	1186.2
67.5°	13197.4	10712.7	3079.3	1197.4	1311.2	1415.4	1490.8	1396.2	1285.6	1118.9	1109.3
68°	12972.9	10345.7	2628.9	1191.0	1308.0	1405.8	1471.5	1373.8	1266.4	1104.5	1098.0
70°	11664.9	8454.1	1186.2	1170.2	1288.8	1370.6	1418.6	1311.2	1195.8	1054.8	1045.1
72.5°	9013.6	5235.3	796.7	1112.5	1240.7	1317.7	1348.1	1247.1	1150.9	993.8	981.0
75°	5342.7	1439.5	755.0	1013.1	1159.0	1266.4	1298.4	1197.4	1083.6	902.5	881.6
77.5°	1314.4	519.4	731.0	900.9	1074.0	1181.4	1232.7	1163.8	1025.9	812.7	791.9
80°	399.1	413.6	695.7	779.0	966.6	1054.8	1085.2	1085.2	949.0	572.3	602.7
82.5°	262.9	331.8	593.1	585.1	767.8	873.6	815.9	819.1	745.4	254.9	298.2
85°	165.1	270.9	400.7	383.1	488.9	535.4	580.3	596.3	524.2	73.7	4.8
87.5°	85.0	115.4	141.1	150.7	194.0	277.3	371.9	365.5	269.3	65.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)