

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: P381125

Luminaire Tested: **PRV-PA1B-740-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-740-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9886 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

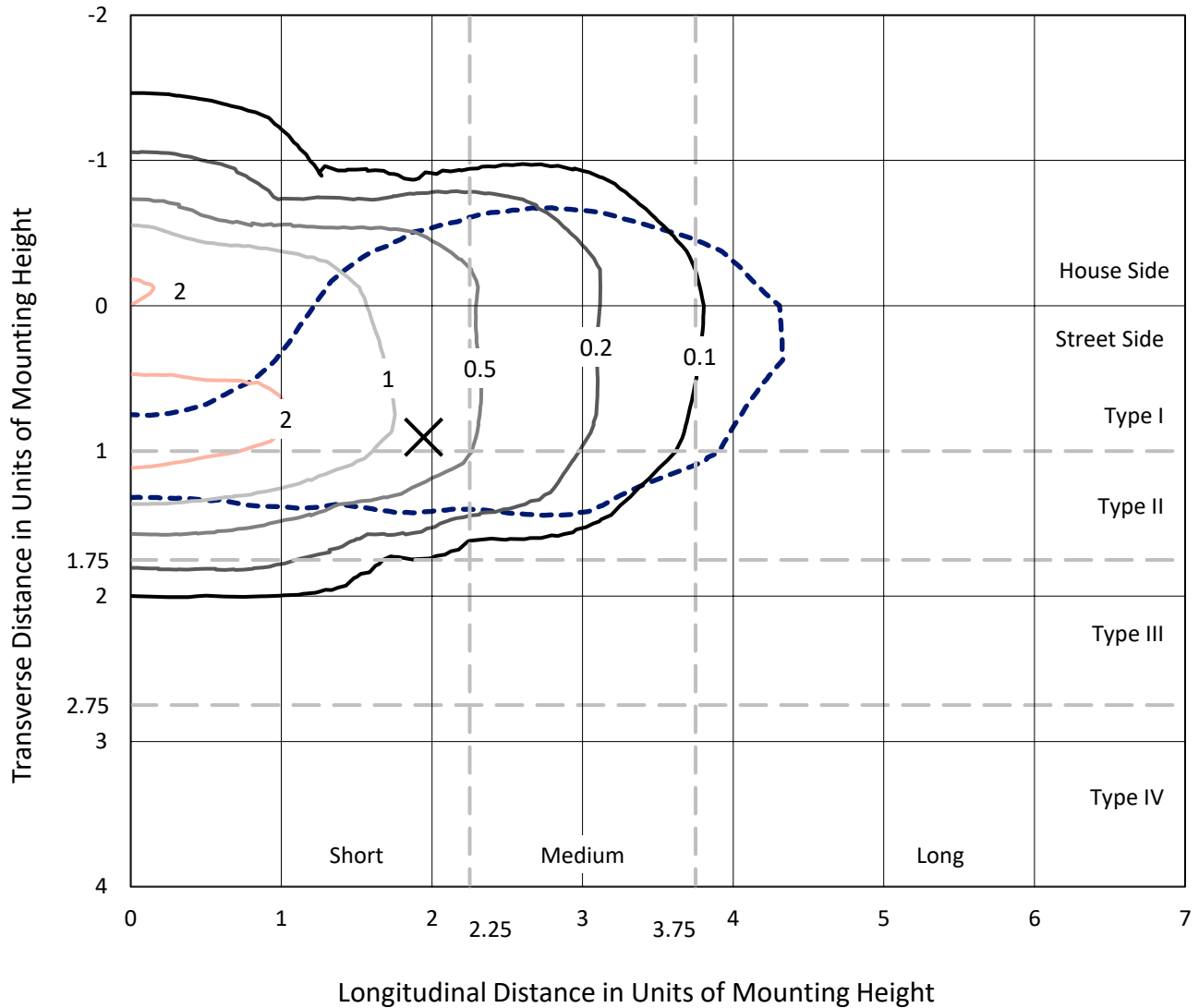
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

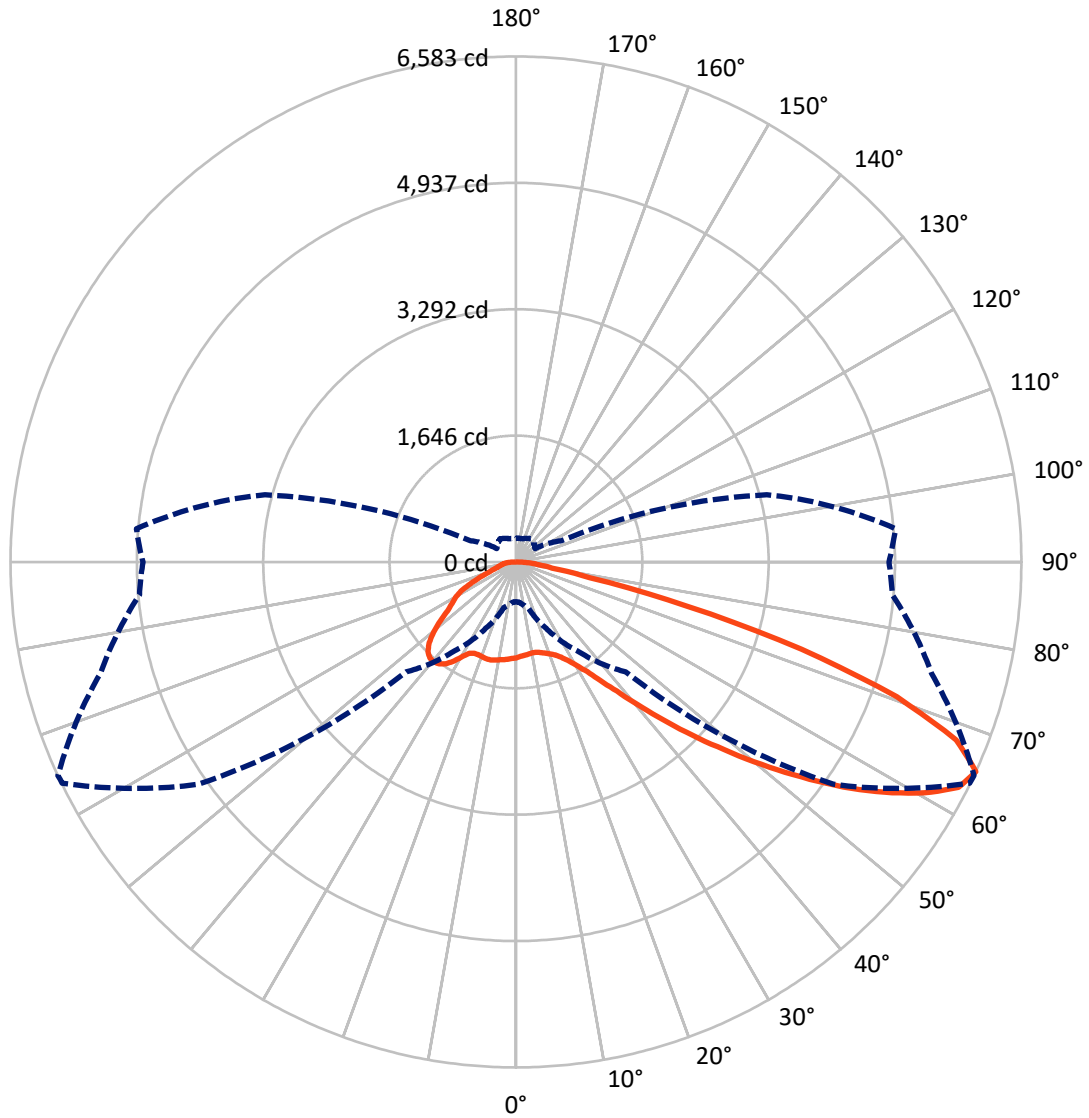
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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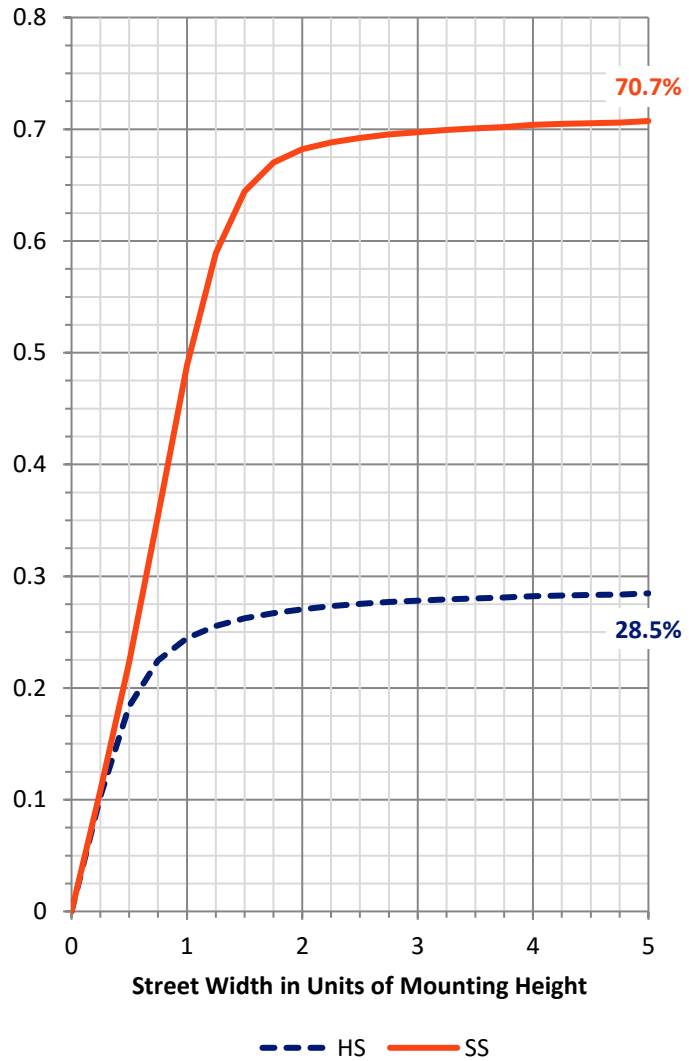
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.2	0.0	2858.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	7027.8	0.0	7027.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	9886.0	0.0	9886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.2
10°-20°	355.3	3.6
20°-30°	631.2	6.4
30°-40°	1067.8	10.8
40°-50°	1858.8	18.8
50°-60°	2402.1	24.3
60°-70°	2102.0	21.3
70°-80°	1143.3	11.6
80°-90°	206.6	2.1
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°	9886.0	100.0
0°-180°	9886.0	100.0

Coefficient of Utilization



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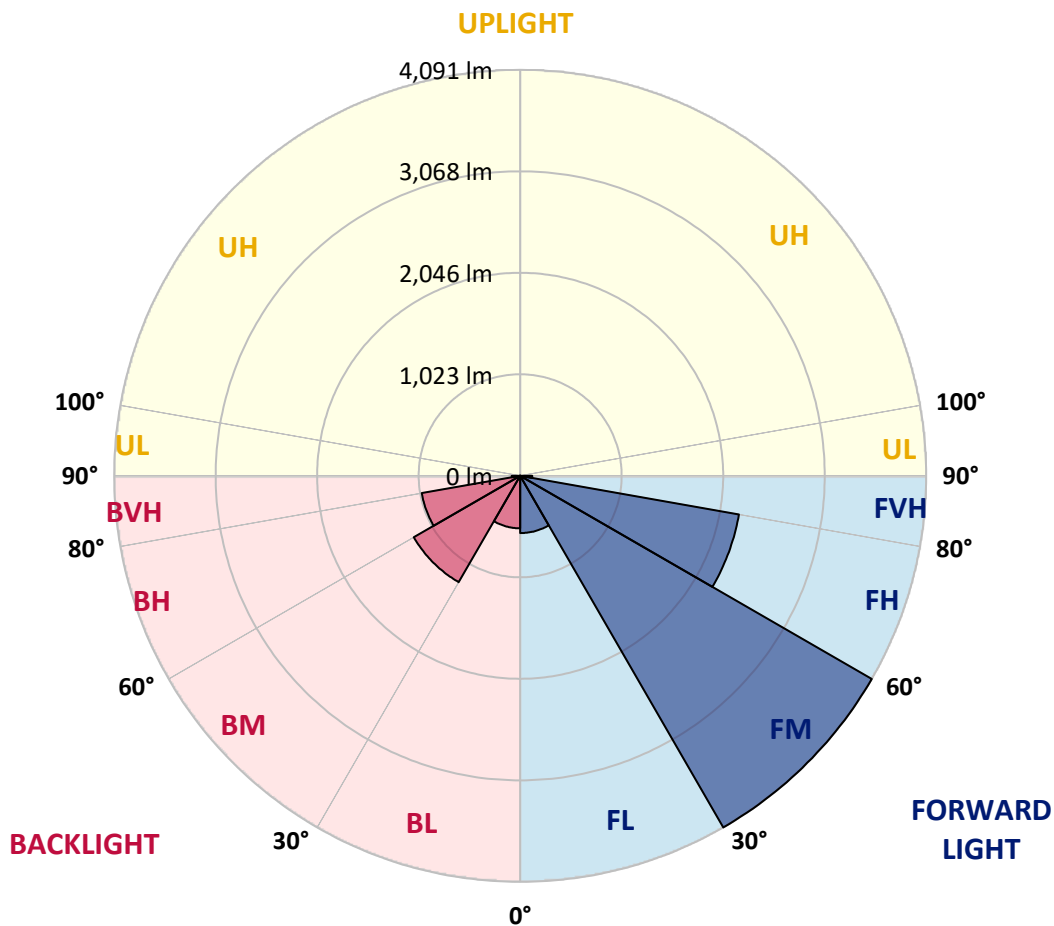
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.8	5.8			
FM (30°-60°)	4091.1	41.4			
FH (60°-80°)	2238.3	22.6			G2/5000
FVH (80°-90°)	121.6	1.2			G2/225
BL (0°-30°)	528.7	5.3	B2/1000		
BM (30°-60°)	1237.5	12.5	B2/2500		
BH (60°-80°)	1007.0	10.2	B3/2500		G3/2500
BVH (80°-90°)	85.0	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2
2.5°	1227.1	1225.8	1223.2	1225.8	1227.1	1229.7	1228.4	1231.0	1229.7	1233.6	1240.1
5°	1195.8	1193.2	1191.9	1198.4	1202.3	1208.9	1211.5	1220.6	1219.3	1225.8	1236.2
7.5°	1160.7	1160.7	1159.4	1167.2	1172.4	1184.1	1193.2	1208.9	1210.2	1221.9	1233.6
10°	1133.4	1134.7	1133.4	1139.9	1147.7	1162.0	1177.6	1199.7	1201.0	1218.0	1229.7
12.5°	1123.0	1123.0	1123.0	1132.1	1142.5	1162.0	1180.2	1203.6	1206.3	1224.5	1234.9
15°	1137.3	1138.6	1136.0	1145.1	1156.8	1180.2	1197.1	1221.9	1224.5	1241.4	1247.9
17.5°	1188.0	1193.2	1186.7	1191.9	1189.3	1207.6	1223.2	1247.9	1249.2	1263.5	1266.1
20°	1288.2	1293.4	1283.0	1276.5	1253.1	1251.8	1258.3	1277.8	1277.8	1286.9	1280.4
22.5°	1443.1	1448.3	1430.1	1405.3	1349.4	1322.1	1307.7	1316.9	1315.6	1319.5	1302.5
25°	1648.7	1647.4	1625.2	1579.7	1489.9	1423.6	1388.4	1374.1	1374.1	1366.3	1345.5
27.5°	1903.7	1884.2	1845.2	1790.5	1665.6	1573.2	1497.7	1461.3	1454.8	1431.4	1392.3
30°	2175.7	2161.4	2105.4	2026.0	1881.6	1763.2	1638.3	1565.4	1561.5	1510.7	1452.2
32.5°	2495.8	2472.4	2409.9	2314.9	2141.8	1975.3	1819.1	1708.5	1702.0	1621.3	1540.7
35°	2907.0	2887.5	2766.4	2671.4	2448.9	2230.3	2045.6	1898.5	1893.3	1794.4	1691.6
37.5°	3400.1	3349.4	3232.3	3054.0	2819.8	2560.8	2326.6	2141.8	2135.3	2026.0	1895.9
40°	3840.0	3794.4	3690.3	3526.4	3275.2	2987.6	2670.1	2446.3	2439.8	2307.1	2143.1
42.5°	4165.3	4134.0	4066.4	3971.4	3791.8	3617.4	3108.7	2814.6	2802.9	2631.1	2426.8
45°	4354.0	4329.2	4290.2	4313.6	4311.0	4278.5	3631.8	3253.1	3215.4	2992.9	2743.0
47.5°	4308.4	4286.3	4301.9	4484.1	4735.2	4923.9	4240.7	3702.0	3651.3	3361.1	3080.0
50°	3979.2	3988.3	4070.3	4419.0	4982.5	5401.5	4916.1	4213.4	4145.8	3732.0	3400.1
52.5°	3379.3	3401.4	3600.5	4088.5	4955.1	5711.1	5526.4	4741.7	4651.9	4093.7	3691.6
55°	2684.5	2740.4	2998.1	3510.7	4598.6	5733.3	5987.0	5272.6	5173.7	4433.3	3945.4
57.5°	1985.7	2069.0	2367.0	2838.0	3915.4	5383.2	6217.3	5780.1	5660.4	4770.3	4213.4
60°	1259.6	1310.3	1653.9	2209.5	2996.8	4527.0	6187.4	6212.1	6108.0	5106.1	4493.2
62.5°	804.2	828.9	1002.0	1575.8	2095.0	3352.0	5860.8	6538.7	6468.5	5411.9	4758.6
65°	516.6	527.0	615.5	969.4	1426.2	2023.4	5047.5	6573.9	6583.0	5603.1	4922.6
67.5°	420.3	425.5	458.0	598.6	1008.5	1117.8	3516.0	6074.2	6184.8	5553.7	4866.6
70°	382.6	389.1	422.9	477.6	780.7	771.6	1702.0	5082.6	5263.5	5268.7	4618.1
72.5°	322.7	331.8	377.4	451.5	603.8	609.0	720.9	3620.1	3886.8	4709.2	4244.6
75°	269.4	274.6	313.6	398.2	511.4	486.7	506.2	1919.3	2304.5	3776.2	3847.8
77.5°	218.6	223.8	252.4	317.5	454.1	378.7	398.2	795.1	982.4	2563.4	3145.1
80°	156.1	161.4	193.9	247.2	343.5	340.9	295.4	438.5	476.3	1385.8	2042.9
82.5°	111.9	115.8	147.0	177.0	238.1	342.2	222.5	298.0	312.3	614.2	823.7
85°	75.5	75.5	101.5	117.1	153.5	216.0	179.6	201.7	210.8	291.5	222.5
87.5°	32.5	32.5	54.7	59.9	80.7	100.2	134.0	101.5	104.1	157.5	91.1
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°	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2
2.5°	1244.0	1245.3	1247.9	1255.7	1260.9	1268.7	1272.6	1277.8	1277.8	1275.2	1276.5
5°	1241.4	1245.3	1254.4	1268.7	1277.8	1292.1	1302.5	1310.3	1313.0	1310.3	1311.7
7.5°	1240.1	1246.6	1262.2	1283.0	1296.0	1314.3	1328.6	1337.7	1344.2	1341.6	1342.9
10°	1236.2	1246.6	1266.1	1292.1	1311.7	1329.9	1342.9	1346.8	1350.7	1348.1	1346.8
12.5°	1241.4	1253.1	1273.9	1305.1	1327.3	1341.6	1345.5	1339.0	1329.9	1324.7	1323.4
15°	1251.8	1263.5	1284.3	1316.9	1336.4	1341.6	1332.5	1311.7	1290.8	1279.1	1277.8
17.5°	1266.1	1273.9	1290.8	1319.5	1335.1	1328.6	1310.3	1285.6	1270.0	1260.9	1262.2
20°	1275.2	1275.2	1288.2	1310.3	1323.4	1318.2	1296.0	1268.7	1244.0	1232.3	1228.4
22.5°	1288.2	1281.7	1283.0	1302.5	1320.8	1313.0	1266.1	1218.0	1182.8	1169.8	1168.5
25°	1323.4	1305.1	1293.4	1305.1	1348.1	1284.3	1190.6	1134.7	1102.2	1090.4	1091.7
27.5°	1366.3	1341.6	1316.9	1336.4	1370.2	1219.3	1094.3	1030.6	1011.1	1002.0	1005.9
30°	1409.2	1376.7	1344.2	1414.4	1354.6	1117.8	970.7	908.3	891.4	884.8	890.0
32.5°	1488.6	1435.3	1396.2	1518.5	1306.4	1002.0	836.7	779.4	763.8	756.0	753.4
35°	1621.3	1553.7	1514.6	1609.6	1238.8	873.1	714.4	674.0	657.1	640.2	637.6
37.5°	1812.6	1730.7	1695.5	1661.7	1143.8	745.6	620.7	593.4	568.6	542.6	541.3
40°	2041.6	1934.9	1908.9	1685.1	1012.4	625.9	555.6	529.6	498.4	473.7	475.0
42.5°	2305.8	2169.2	2113.2	1678.6	849.7	562.1	508.8	480.2	452.8	430.7	429.4
45°	2588.2	2433.3	2304.5	1633.1	688.4	517.9	480.2	446.3	419.0	394.3	391.7
47.5°	2900.5	2727.4	2481.5	1544.6	568.6	486.7	463.2	415.1	390.4	374.8	374.8
50°	3215.4	3008.5	2644.1	1410.5	498.4	463.2	438.5	398.2	378.7	365.6	365.6
52.5°	3484.7	3301.2	2778.1	1250.5	454.1	443.7	421.6	390.4	369.6	357.8	356.5
55°	3746.3	3573.2	2897.9	1091.7	417.7	417.7	417.7	383.9	360.4	350.0	348.7
57.5°	4006.5	3859.5	3022.8	987.6	385.2	395.6	409.9	376.1	352.6	343.5	342.2
60°	4300.6	4203.0	3167.2	914.8	356.5	372.2	399.5	366.9	339.6	331.8	330.5
62.5°	4612.9	4612.9	3298.6	812.0	330.5	352.6	383.9	355.2	327.9	321.4	320.1
65°	4857.5	4962.9	3383.2	658.4	304.5	333.1	365.6	339.6	312.3	311.0	308.4
67.5°	4886.2	5051.4	3329.9	497.1	281.1	312.3	347.4	322.7	296.7	296.7	292.8
70°	4680.6	4848.4	3163.3	372.2	264.2	291.5	324.0	301.9	277.2	279.8	273.3
72.5°	4337.0	4378.7	2749.5	294.1	244.6	269.4	295.4	278.5	256.3	256.3	247.2
75°	3884.2	3652.6	1997.4	245.9	221.2	243.3	266.8	252.4	232.9	226.4	221.2
77.5°	3091.7	2646.7	1160.7	212.1	201.7	218.6	234.2	223.8	206.9	192.6	192.6
80°	1884.2	1551.1	512.7	183.5	178.3	191.3	201.7	190.0	175.7	161.4	157.5
82.5°	717.0	598.6	248.5	157.5	156.1	164.0	171.8	160.1	149.6	143.1	123.6
85°	196.5	180.9	170.5	131.4	128.8	127.5	136.6	131.4	117.1	96.3	85.9
87.5°	74.2	84.6	92.4	80.7	85.9	79.4	91.1	83.3	74.2	48.1	42.9
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)