

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: P622542

Luminaire Tested: **PRV-M-C275-D-U-T3-BZ**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C275-D-U-T3-BZ
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79027 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

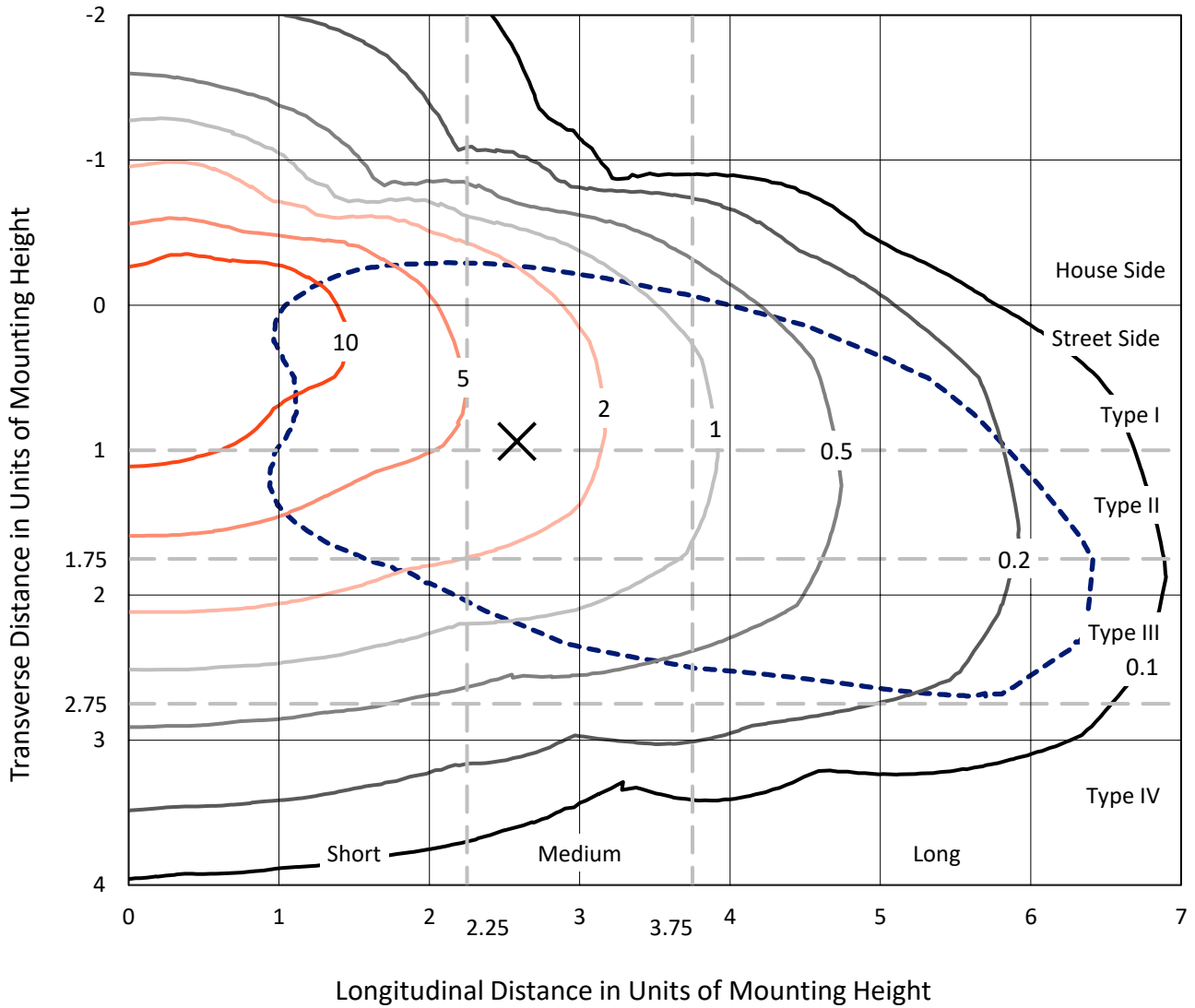
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

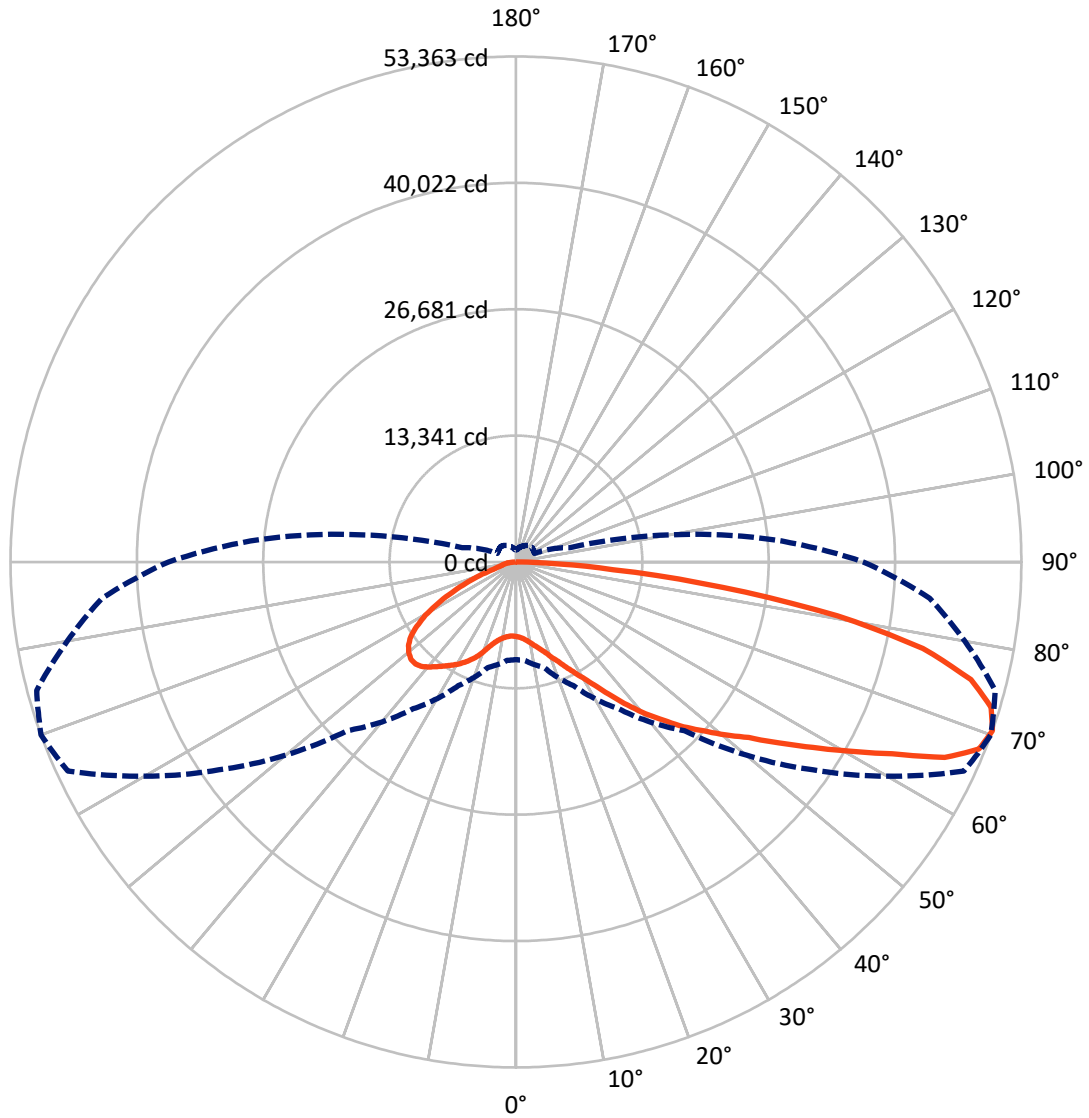
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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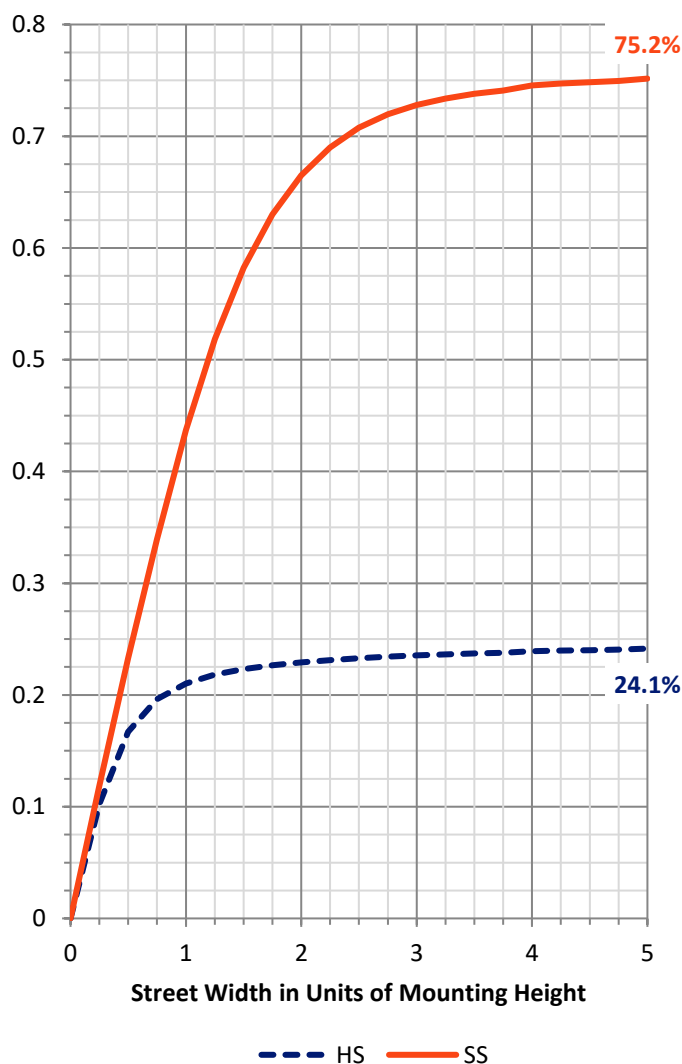
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19453.0	0.0	19453.0
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	59574.0	0.0	59574.0
	% Fixture	75.4	0.0	75.4
Total	Lumens	79027.0	0.0	79027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.0	1.0
10°-20°	2494.4	3.2
20°-30°	4711.0	6.0
30°-40°	7870.3	10.0
40°-50°	12019.5	15.2
50°-60°	16015.4	20.3
60°-70°	18481.1	23.4
70°-80°	13796.9	17.5
80°-90°	2867.5	3.6
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°	79027.0	100.0
0°-180°	79027.0	100.0

Coefficient of Utilization



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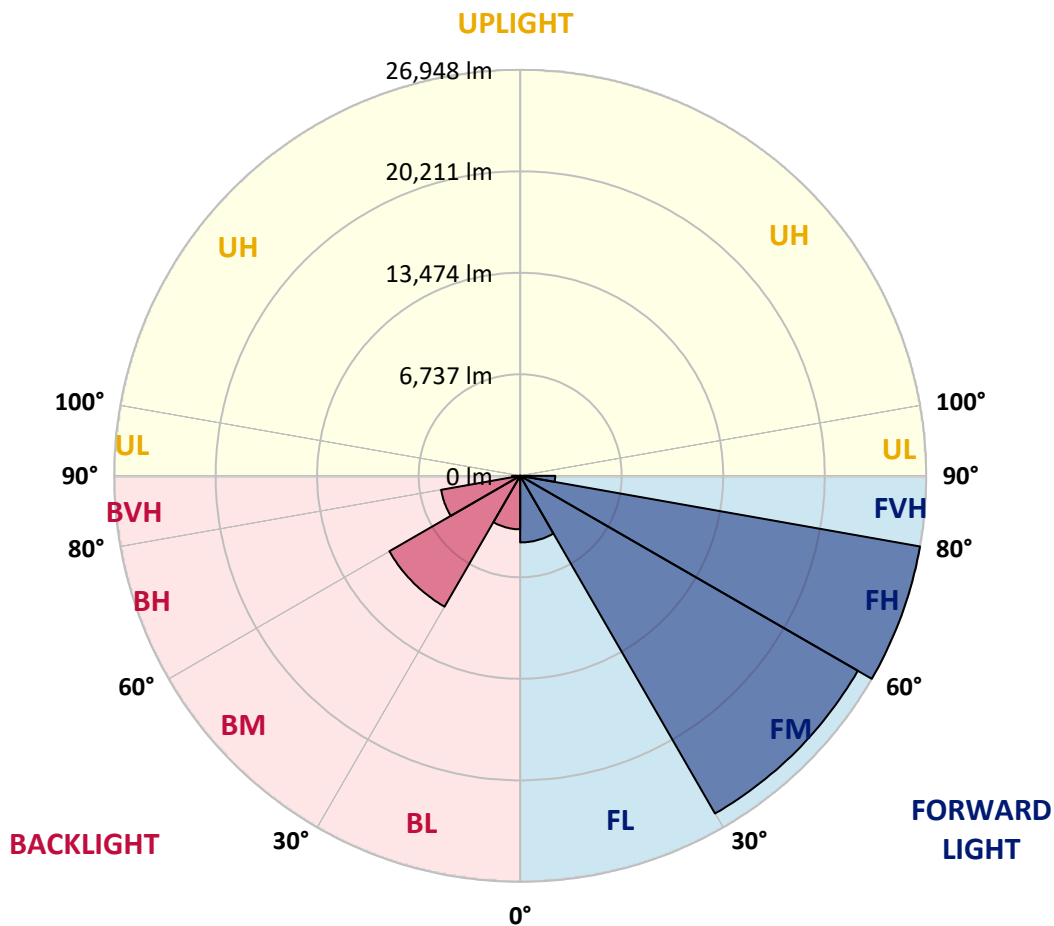
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4423.8	5.6			
FM (30°-60°)	25877.1	32.7			
FH (60°-80°)	26948.3	34.1			G5
FVH (80°-90°)	2324.8	2.9			G5
BL (0°-30°)	3552.6	4.5	B4/5000		
BM (30°-60°)	10028.1	12.7	B5		
BH (60°-80°)	5329.7	6.7	B5		G5
BVH (80°-90°)	542.7	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4
2.5°	8097.7	8113.5	8149.7	8093.0	8096.1	8030.0	8022.1	8003.2	7954.3	7941.7	7930.7
5°	8390.7	8427.0	8430.1	8390.7	8371.8	8264.7	8248.9	8208.0	8130.8	8096.1	8056.7
7.5°	8627.0	8660.1	8696.4	8666.4	8655.4	8564.0	8542.0	8464.8	8376.6	8326.1	8253.7
10°	8801.9	8855.5	8885.4	8894.9	8935.8	8864.9	8855.5	8798.8	8713.7	8628.6	8554.6
12.5°	8937.4	8991.0	9043.0	9091.8	9186.3	9189.5	9208.4	9181.6	9106.0	9013.0	8898.0
15°	9049.3	9094.9	9194.2	9298.2	9444.7	9506.1	9616.4	9607.0	9545.5	9444.7	9321.8
17.5°	9246.2	9310.8	9397.4	9526.6	9707.8	9832.2	10060.7	10131.6	10046.5	10013.4	9863.8
20°	9583.3	9614.8	9696.8	9805.5	10008.7	10252.9	10572.7	10760.2	10716.1	10684.6	10519.1
22.5°	9981.9	10013.4	10035.5	10139.5	10377.3	10739.7	11180.8	11451.8	11399.8	11412.4	11306.8
25°	10419.9	10464.0	10445.1	10536.5	10820.0	11207.6	11798.4	12225.3	12291.5	12330.9	12414.4
27.5°	11037.5	11095.7	11051.6	11080.0	11319.5	11804.7	12493.1	13087.1	13239.9	13307.6	13855.9
30°	12159.2	12217.4	12124.5	11842.5	11957.5	12472.7	13277.7	14073.3	14328.5	14667.2	15456.5
32.5°	13814.9	13810.2	13607.0	13110.7	12842.9	13224.1	14120.6	15187.1	15669.2	16381.3	17302.9
35°	15467.6	15377.8	15212.3	14738.1	14208.8	14096.9	15010.7	16368.7	17359.6	18471.9	19410.9
37.5°	16976.8	16987.8	16871.3	16494.7	15880.3	15407.7	16003.2	17707.8	19188.7	20715.3	21422.7
40°	18349.0	18372.6	18312.8	18032.4	17608.6	17047.7	17074.5	19109.9	21072.9	22870.5	23453.4
42.5°	19343.1	19486.5	19680.3	19399.8	19264.3	18746.0	18378.9	20386.0	22818.5	24800.4	25200.6
45°	20233.2	20250.6	20416.0	20549.9	20732.6	20543.6	19974.9	21822.8	24820.9	26731.9	26979.2
47.5°	20883.9	20831.9	21024.1	21495.1	22128.5	22177.3	21777.1	23508.5	26620.0	28513.7	28567.2
50°	21225.7	21239.9	21684.2	22383.7	23469.2	23806.3	23744.9	25596.0	28694.9	30356.9	30142.7
52.5°	21482.5	21596.0	22224.6	23176.1	24674.4	25388.0	25602.3	28126.1	30772.8	32310.5	31933.9
55°	21614.9	21794.5	22489.2	23730.7	25599.1	26881.5	27369.9	31023.3	33707.9	34765.0	33622.8
57.5°	20934.3	21117.0	22194.6	23852.0	26257.7	27992.2	29408.5	34385.3	36932.8	37408.5	35822.1
60°	19379.3	19563.7	21148.5	23543.2	26375.8	29016.2	31680.3	38385.3	40572.0	40480.6	37608.6
62.5°	17843.3	17898.4	19497.5	22448.3	25903.2	29463.7	34193.1	42780.8	44586.2	44112.0	39603.1
65°	15768.5	15891.3	17509.3	20373.4	24578.3	29191.1	36212.8	47195.1	49752.0	48370.4	41641.7
67.5°	13317.1	13514.0	14946.1	17843.3	22156.8	27929.2	37589.7	50864.3	52724.9	51595.3	43256.5
70°	10308.0	10423.0	11544.7	14405.7	18917.7	25176.9	38271.9	52198.7	53362.9	52378.3	43841.0
72.5°	7335.2	7245.4	7971.7	9948.8	14279.7	21098.1	37471.6	51910.4	52469.6	51273.9	42426.3
75°	5014.6	4808.2	5399.0	6443.5	8397.0	15009.1	33462.1	49370.8	49600.8	48036.4	38965.1
77.5°	2637.3	2668.8	3001.2	4014.2	5438.4	7132.0	23990.6	43455.0	43937.1	42968.2	32945.4
80°	570.3	620.7	2054.4	2516.0	3226.5	4223.7	10690.9	32721.6	34435.7	33802.4	23952.8
82.5°	378.1	400.2	1306.0	1665.2	1876.3	2137.9	3856.6	18720.8	21985.1	21139.1	12824.0
85°	225.3	239.5	494.7	652.2	968.9	939.0	1421.0	7658.2	10290.7	9952.0	4622.3
87.5°	94.5	100.8	176.4	282.0	389.1	475.8	490.0	2037.0	3161.9	3212.3	1003.5
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°	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4	7872.4
2.5°	7897.6	7881.9	7863.0	7801.5	7749.5	7725.9	7700.7	7661.3	7666.0	7681.8	7650.3
5°	7996.9	7962.2	7900.8	7804.7	7705.4	7637.7	7588.8	7524.2	7497.5	7494.3	7469.1
7.5°	8181.2	8137.1	8026.8	7875.6	7736.9	7631.4	7543.2	7447.0	7387.2	7371.4	7341.5
10°	8460.0	8384.4	8225.3	8023.7	7844.1	7692.8	7552.6	7399.8	7299.0	7251.7	7217.0
12.5°	8783.0	8701.1	8485.3	8252.1	8025.2	7806.2	7599.9	7374.6	7220.2	7138.3	7087.9
15°	9225.7	9101.2	8879.1	8614.4	8330.9	8030.0	7736.9	7401.4	7133.5	6976.0	6920.9
17.5°	9770.8	9629.0	9416.3	9115.4	8759.4	8335.6	7874.0	7371.4	6938.2	6703.4	6654.6
20°	10423.0	10372.6	10147.3	9758.2	9211.5	8616.0	7959.1	7286.4	6689.3	6344.2	6265.5
22.5°	11300.5	11305.3	11024.8	10347.4	9632.2	8787.7	7971.7	7098.9	6317.5	5918.9	5859.0
25°	12456.9	12453.8	11782.6	10834.2	9865.3	8844.5	7859.8	6752.3	5884.2	5438.4	5361.2
27.5°	13797.6	13566.0	12540.4	11206.0	9914.2	8734.2	7541.6	6235.5	5381.7	4953.1	4883.8
30°	15284.8	14846.8	13295.0	11478.6	9846.4	8423.8	6961.8	5670.0	4983.1	4570.3	4491.5
32.5°	17022.5	16274.2	14071.7	11629.8	9660.5	7989.0	6265.5	5372.2	4743.6	4282.0	4182.8
35°	18859.5	17974.1	14933.5	11699.1	9263.5	7253.3	5733.0	5161.1	4553.0	4036.2	3946.4
37.5°	20754.7	19685.0	15937.0	11724.3	8757.8	6331.6	5413.2	4926.4	4311.9	3853.5	3790.5
40°	22612.1	21277.7	17003.6	11716.5	8012.6	5654.2	5134.3	4619.2	4107.1	3697.5	3625.1
42.5°	24299.4	22755.5	18081.2	11610.9	7133.5	5306.0	4868.1	4415.9	3929.1	3467.5	3376.1
45°	25873.3	24102.5	18949.3	11276.9	6141.0	4978.4	4568.7	4171.7	3703.8	3231.2	3132.0
47.5°	27261.2	25402.2	19535.3	10690.9	5353.3	4649.1	4208.0	3878.7	3473.8	3023.2	2944.5
50°	28694.9	26620.0	19993.8	9715.7	4754.6	4260.0	3845.6	3551.0	3228.1	2864.1	2793.2
52.5°	30156.8	28063.1	20600.3	8193.8	4181.2	3864.5	3443.9	3124.1	2909.8	2670.4	2602.6
55°	31776.4	29547.2	21085.5	6257.6	3651.8	3495.9	3043.7	2705.0	2522.3	2383.6	2364.7
57.5°	33158.0	30791.7	20620.8	4329.3	3276.9	3125.6	2673.5	2325.3	2134.7	2104.8	2152.0
60°	34702.0	31793.7	18905.1	3265.9	3001.2	2681.4	2303.3	2022.8	1920.4	1833.8	1835.4
62.5°	36493.2	32345.1	15919.7	2768.0	2701.9	2360.0	2070.1	1873.2	1775.5	1633.7	1594.3
65°	37510.9	32132.4	12460.1	2482.9	2429.3	2251.3	2032.3	1825.9	1676.3	1482.5	1449.4
67.5°	37854.4	30462.5	9221.0	2278.1	2282.8	2260.7	2068.5	1810.2	1630.6	1408.4	1381.7
70°	36685.4	27198.2	5892.1	2163.1	2221.4	2284.4	2148.9	1868.5	1630.6	1312.3	1287.1
72.5°	33643.3	23122.6	3067.4	1994.5	2182.0	2273.3	2246.6	1988.2	1572.3	1189.4	1164.2
75°	28746.8	18136.3	1731.4	1822.8	2104.8	2249.7	2295.4	1980.3	1446.2	1011.4	976.8
77.5°	22895.7	11339.9	1388.0	1633.7	1961.4	2084.3	2230.8	2026.0	1476.2	984.6	945.3
80°	13099.7	4390.7	1128.0	1375.3	1651.0	1914.1	2136.3	1948.8	1370.6	905.9	868.1
82.5°	5164.3	1347.0	894.8	1093.3	1345.4	1548.6	1888.9	1778.7	1247.7	666.4	622.3
85°	1353.3	557.7	612.8	751.5	942.1	1128.0	1548.6	1441.5	1013.0	516.7	486.8
87.5°	193.8	154.4	190.6	291.5	535.6	800.3	1028.8	877.5	674.3	393.9	351.3
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)