

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: McGRAW-EDISON

Report Number: P457799

Luminaire Tested: **GALN-SA9A-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32247 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 274
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

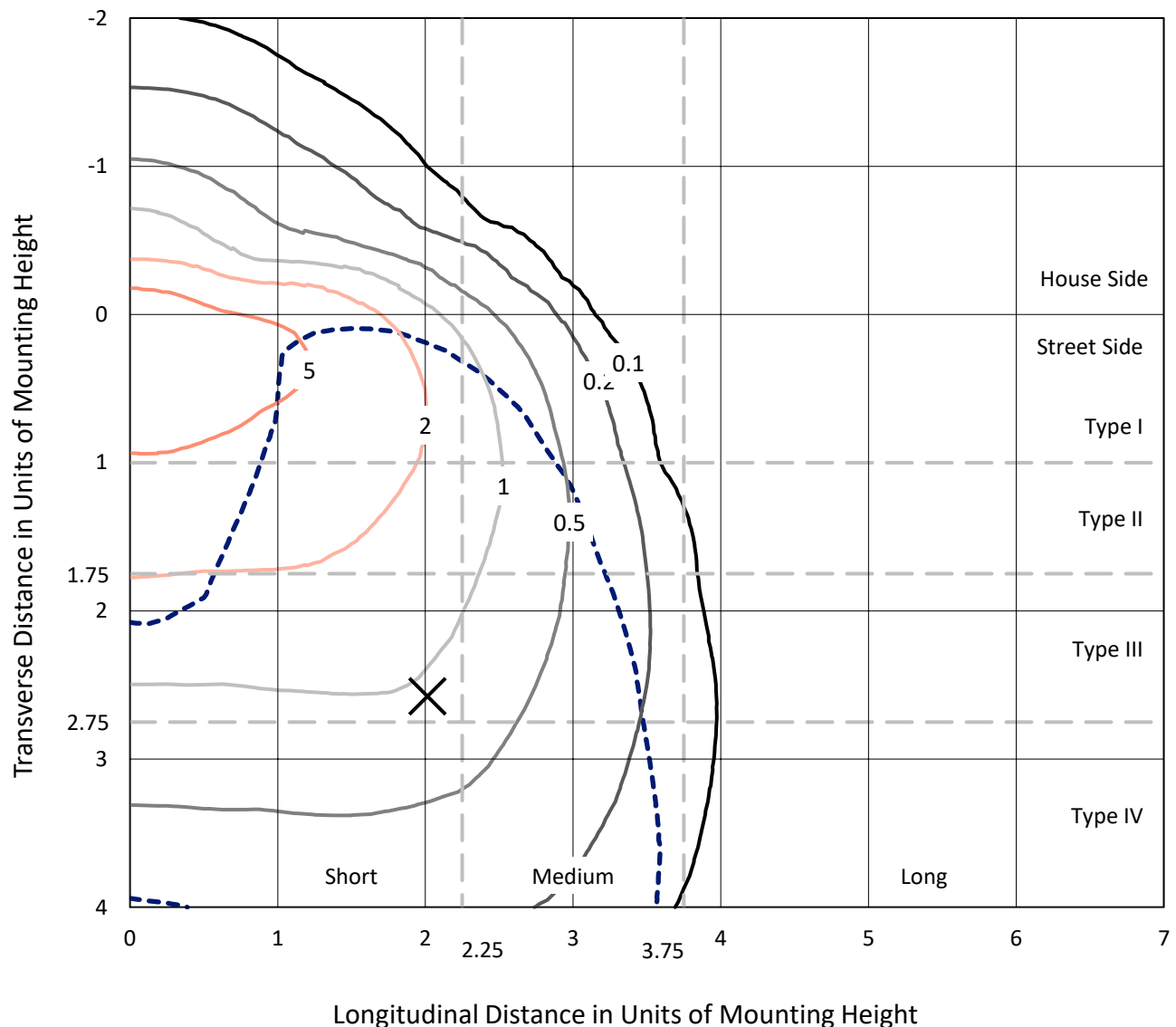


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

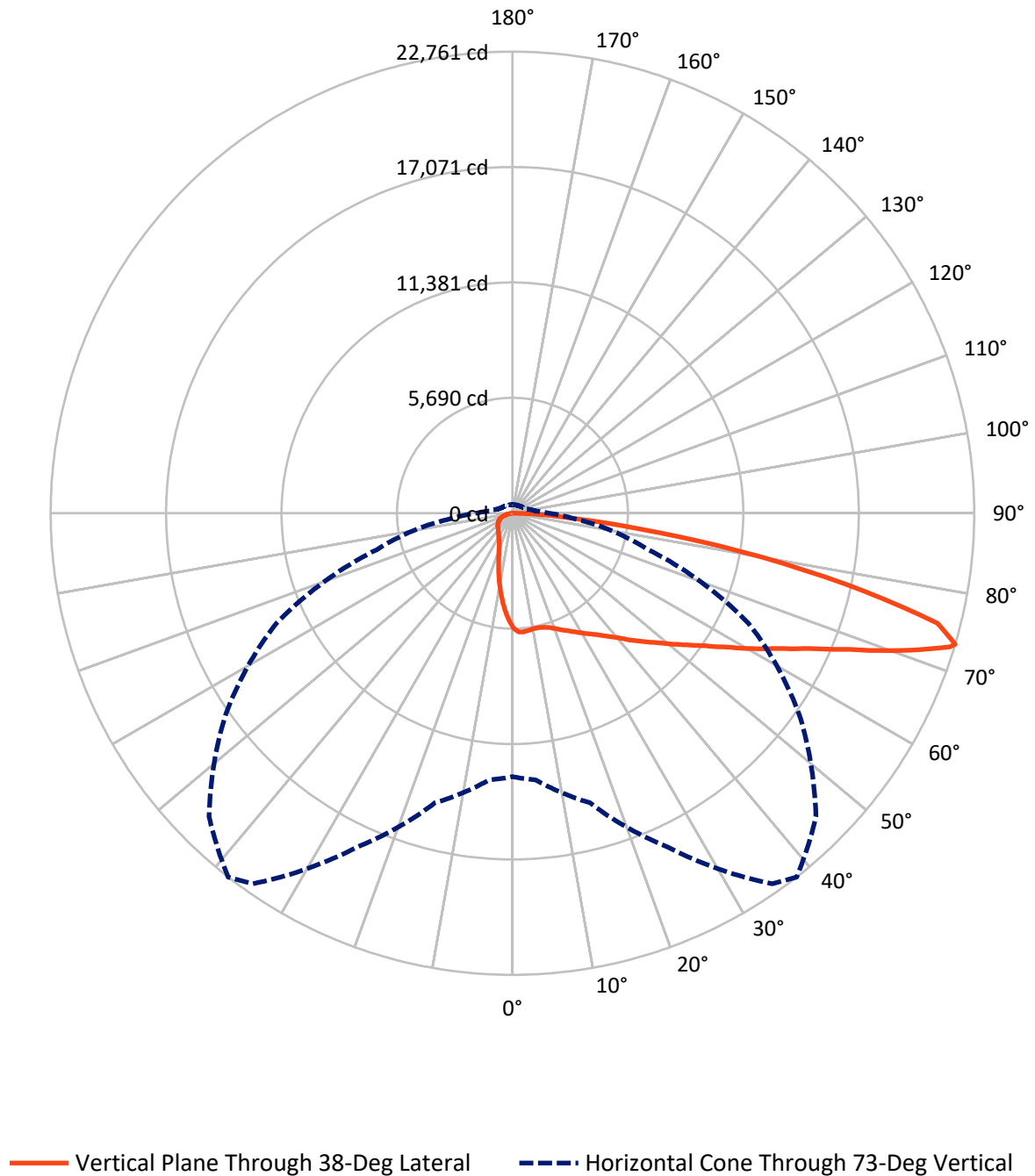


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4335.0	0.0	4335.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27912.0	0.0	27912.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	32247.0	0.0	32247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.5	1.5
10°-20°	1268.1	3.9
20°-30°	1974.7	6.1
30°-40°	2896.4	9.0
40°-50°	4296.5	13.3
50°-60°	6087.2	18.9
60°-70°	7721.8	23.9
70°-80°	6427.8	19.9
80°-90°	1080.0	3.3
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°	32247.0	100.0
0°-180°	32247.0	100.0

Coefficient of Utilization



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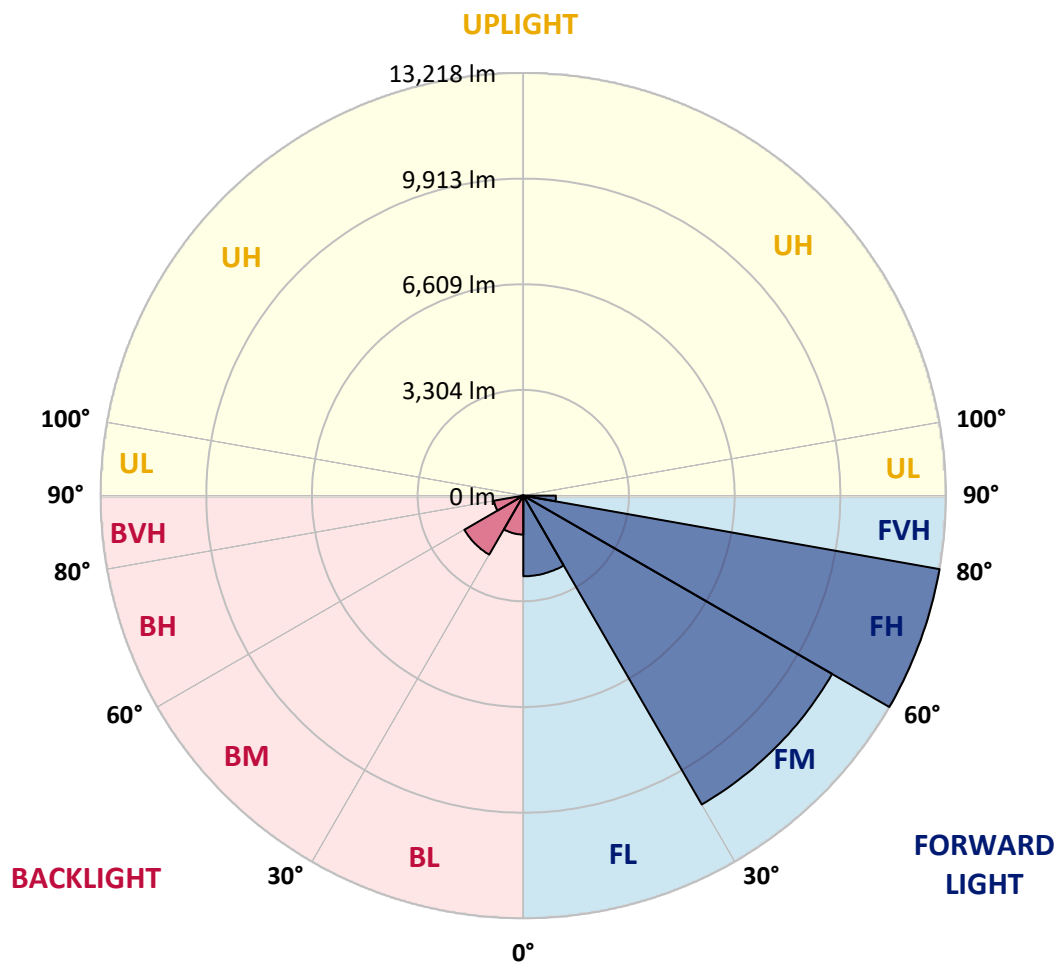
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2520.8	7.8			
FM	(30°-60°)	11151.9	34.6			
FH	(60°-80°)	13217.9	41.0			G5
FVH	(80°-90°)	1021.4	3.2			G5
BL	(0°-30°)	1216.4	3.8	B3/2500		
BM	(30°-60°)	2128.2	6.6	B2/2500		
BH	(60°-80°)	931.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	58.6	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3
2.5°	5892.9	5922.0	5907.4	5887.4	5874.7	5861.9	5843.7	5790.9	5749.0	5703.5	5632.5
5°	5936.6	5954.8	5942.0	5916.6	5887.4	5874.7	5840.1	5770.9	5703.5	5627.0	5521.4
7.5°	5911.1	5918.4	5903.8	5872.8	5847.4	5823.7	5783.6	5707.1	5625.2	5532.3	5393.9
10°	5820.0	5847.4	5847.4	5821.9	5796.4	5783.6	5743.6	5670.7	5596.1	5490.4	5326.5
12.5°	5745.4	5774.5	5798.2	5790.9	5789.1	5789.1	5758.1	5703.5	5616.1	5515.9	5321.1
15°	5694.4	5729.0	5780.0	5809.1	5827.3	5832.8	5820.0	5772.7	5683.5	5566.9	5342.9
17.5°	5683.5	5725.3	5818.2	5882.0	5929.3	5927.5	5923.8	5858.3	5759.9	5639.8	5370.2
20°	5732.6	5787.3	5916.6	6016.7	6085.9	6073.2	6053.1	5967.5	5852.8	5718.1	5395.7
22.5°	5880.1	5936.6	6078.6	6187.9	6255.3	6255.3	6195.2	6082.3	5960.3	5809.1	5430.3
25°	6091.4	6153.3	6304.4	6415.5	6446.5	6422.8	6362.7	6226.1	6085.9	5940.2	5503.2
27.5°	6350.0	6424.6	6564.8	6657.7	6648.6	6630.4	6568.5	6393.7	6253.4	6120.5	5627.0
30°	6672.3	6726.9	6872.6	6894.5	6861.7	6858.0	6770.6	6595.8	6464.7	6362.7	5803.7
32.5°	6976.4	7025.6	7142.1	7151.2	7092.9	7100.2	7018.3	6858.0	6783.4	6746.9	6100.5
35°	7298.7	7324.2	7424.4	7413.4	7375.2	7369.7	7337.0	7184.0	7207.7	7273.2	6521.1
37.5°	7568.2	7619.2	7675.7	7684.8	7683.0	7701.2	7723.0	7650.2	7786.8	7992.5	7072.9
40°	7815.9	7859.6	7943.4	7972.5	8043.5	8079.9	8154.6	8156.4	8471.5	8810.2	7752.2
42.5°	7983.4	8058.1	8214.7	8267.5	8440.5	8549.8	8660.9	8779.2	9236.3	9671.5	8553.4
45°	8129.1	8227.5	8487.9	8651.8	8886.7	9019.6	9254.5	9502.2	10159.6	10729.6	9367.4
47.5°	8349.5	8436.9	8735.5	9025.1	9380.2	9533.1	9884.6	10254.3	11113.8	11738.4	10146.8
50°	8655.4	8708.2	9012.3	9484.0	9937.4	10134.1	10598.4	11132.0	12133.6	12734.5	10831.5
52.5°	9046.9	9068.8	9311.0	9939.2	10536.5	10780.5	11396.1	12018.9	13025.9	13599.5	11374.2
55°	9509.5	9473.0	9662.4	10421.8	11221.2	11539.9	12201.0	12916.6	14029.3	14298.8	11769.4
57.5°	9966.5	9910.1	10061.2	11008.2	12066.2	12450.4	13220.7	13841.7	14925.2	14952.5	12046.2
60°	10450.9	10409.1	10589.3	11696.5	13102.4	13557.6	14269.7	14801.4	15792.0	15407.8	12089.9
62.5°	10948.1	10880.7	11137.5	12470.5	14269.7	14683.0	15373.2	15821.2	16642.5	15577.2	11669.2
65°	11430.7	11399.7	11796.7	13390.1	15599.0	16068.8	16739.0	17043.1	17323.5	15322.2	10625.8
67.5°	11944.2	12006.1	12639.8	14617.5	17332.6	17922.7	18645.6	18359.7	17518.4	14114.9	8948.6
70°	12727.2	12767.3	13747.0	16225.5	19567.1	20279.1	20628.7	18827.7	16578.7	11822.2	6726.9
72.5°	13064.1	13240.8	14735.8	17913.6	22105.6	22540.8	21295.2	17784.3	13810.8	8030.8	3534.6
73°	12989.5	13200.7	14781.4	18170.3	22304.1	22761.2	21153.2	17247.1	12838.3	6916.3	3030.2
75°	12058.9	12319.3	14189.5	17955.4	21918.0	21644.9	18869.6	14699.4	8675.4	3144.9	1380.3
77.5°	9514.9	9589.6	11243.1	14499.1	17259.8	16753.6	14122.2	9187.1	3543.7	1169.1	783.0
80°	4772.9	5047.9	6337.2	8305.8	11541.7	11376.0	8914.0	4345.0	1476.9	686.5	519.0
82.5°	2296.3	2491.2	3086.7	4050.0	6377.3	6226.1	4414.2	2374.6	937.8	400.6	305.9
85°	1478.7	1624.4	1964.9	1932.1	2622.3	2503.9	1983.1	1797.4	555.4	209.4	213.1
87.5°	976.1	1068.9	1282.0	1025.2	954.2	863.2	875.9	1012.5	109.3	80.1	29.1
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°	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3	5665.3
2.5°	5603.3	5579.7	5501.4	5424.9	5352.0	5282.8	5237.3	5177.2	5137.2	5148.1	5164.5
5°	5463.1	5410.3	5271.9	5137.2	5009.7	4858.5	4736.5	4638.2	4563.5	4536.2	4530.7
7.5°	5315.6	5226.4	5027.9	4796.6	4579.9	4392.3	4175.6	4068.2	3942.5	3898.8	3884.3
10°	5226.4	5106.2	4827.6	4505.2	4179.3	3867.9	3633.0	3441.8	3268.8	3236.0	3219.6
12.5°	5200.9	5042.5	4667.3	4252.1	3818.7	3436.3	3088.5	2837.2	2669.6	2631.4	2574.9
15°	5186.3	4989.6	4518.0	3997.2	3447.2	2981.0	2615.0	2321.8	2168.9	2066.9	2068.7
17.5°	5173.6	4929.6	4350.5	3718.6	3126.7	2589.5	2185.2	1921.2	1781.0	1726.3	1720.9
20°	5155.4	4858.5	4157.4	3425.4	2760.7	2232.6	1866.6	1669.9	1575.2	1529.7	1527.9
22.5°	5148.1	4789.3	3968.0	3126.7	2436.5	1957.6	1655.3	1516.9	1456.8	1425.9	1425.9
25°	5166.3	4740.2	3769.6	2842.6	2148.8	1722.7	1509.6	1414.9	1380.3	1364.0	1358.5
27.5°	5222.7	4718.3	3572.9	2558.6	1884.8	1562.5	1411.3	1345.7	1320.3	1307.5	1309.3
30°	5330.2	4716.5	3379.8	2278.1	1688.1	1440.4	1333.0	1287.5	1267.4	1260.2	1258.3
32.5°	5503.2	4756.6	3190.5	2046.8	1522.4	1338.5	1260.2	1227.4	1218.3	1212.8	1211.0
35°	5796.4	4869.5	3002.9	1835.6	1394.9	1247.4	1191.0	1174.6	1161.8	1167.3	1169.1
37.5°	6191.5	5064.3	2824.4	1669.9	1298.4	1180.0	1132.7	1118.1	1110.8	1116.3	1121.8
40°	6721.5	5344.7	2675.1	1537.0	1229.2	1123.6	1081.7	1068.9	1061.7	1070.8	1072.6
42.5°	7306.0	5668.9	2551.3	1433.2	1172.7	1076.2	1036.2	1021.6	1016.1	1021.6	1023.4
45°	7907.0	6045.8	2487.5	1358.5	1125.4	1041.6	999.8	983.4	970.6	967.0	972.4
47.5°	8498.8	6373.6	2485.7	1313.0	1087.2	1010.7	965.2	946.9	930.6	921.4	919.6
50°	8981.4	6634.0	2529.4	1292.9	1054.4	976.1	930.6	912.3	890.5	872.3	875.9
52.5°	9345.6	6803.4	2549.5	1283.8	1036.2	939.7	894.1	877.7	852.2	828.6	828.6
55°	9580.5	6843.5	2500.3	1274.7	1021.6	901.4	852.2	837.7	812.2	788.5	788.5
57.5°	9660.6	6719.6	2323.6	1252.9	1007.0	868.6	810.4	797.6	777.6	753.9	750.3
60°	9474.9	6300.8	2014.1	1187.3	977.9	834.0	764.8	759.4	752.1	732.1	730.2
62.5°	8759.2	5412.1	1677.2	1101.7	928.7	797.6	723.0	732.1	737.5	726.6	724.8
65°	7568.2	4394.2	1433.2	983.4	863.2	746.6	677.4	701.1	715.7	715.7	712.0
67.5°	6138.7	3374.4	1207.3	881.4	781.2	677.4	626.4	644.6	655.6	651.9	661.0
70°	4363.2	2285.4	983.4	764.8	677.4	599.1	560.9	560.9	553.6	550.0	550.0
72.5°	2116.0	1305.7	797.6	639.2	577.3	511.7	480.8	468.0	453.4	451.6	442.5
73°	1768.2	1170.9	761.2	615.5	553.6	499.0	464.4	444.3	435.2	427.9	426.1
75°	1076.2	888.7	635.5	519.0	471.6	429.8	398.8	380.6	371.5	366.0	364.2
77.5°	708.4	662.9	493.5	397.0	360.6	335.1	322.3	304.1	298.7	291.4	291.4
80°	528.1	506.2	353.3	280.4	258.6	236.7	233.1	229.5	214.9	205.8	202.1
82.5°	340.5	360.6	240.4	187.6	163.9	145.7	147.5	153.0	138.4	125.7	122.0
85°	242.2	260.4	145.7	85.6	69.2	60.1	67.4	60.1	61.9	49.2	40.1
87.5°	40.1	69.2	25.5	10.9	5.5	3.6	0.0	0.0	0.0	0.0	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)