

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: P652296

Luminaire Tested: **GALN-SA3B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9447.8 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

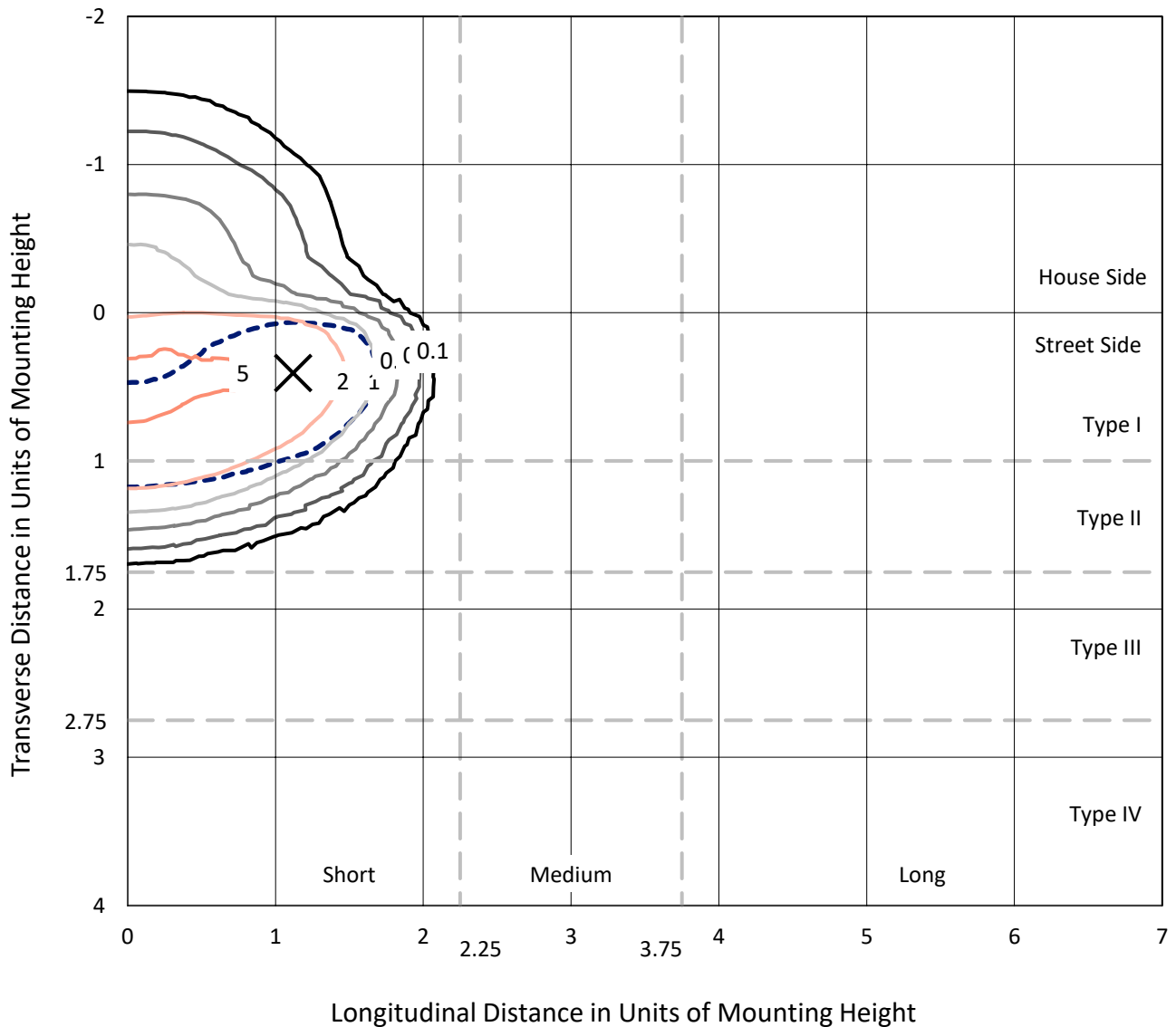
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

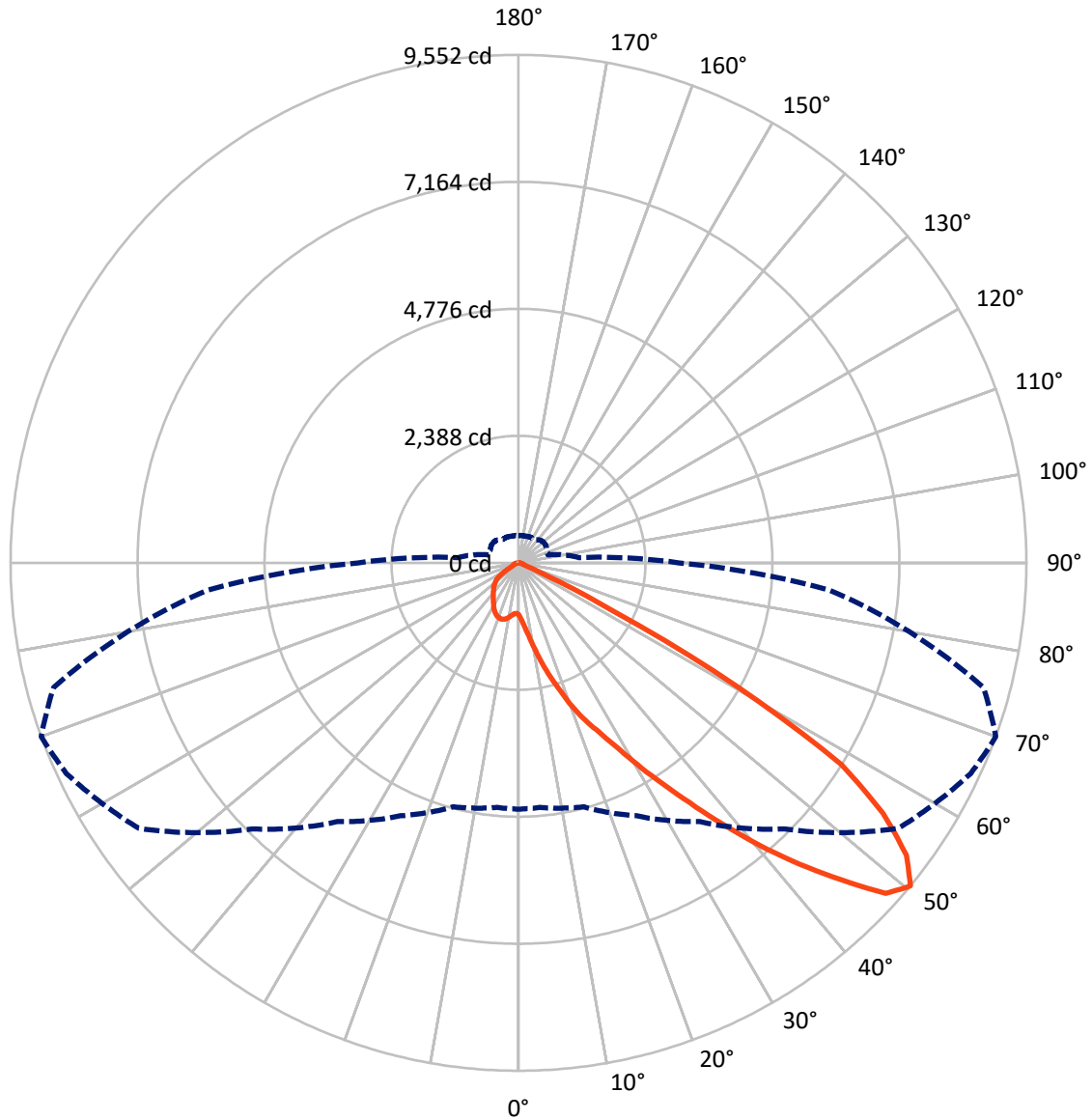
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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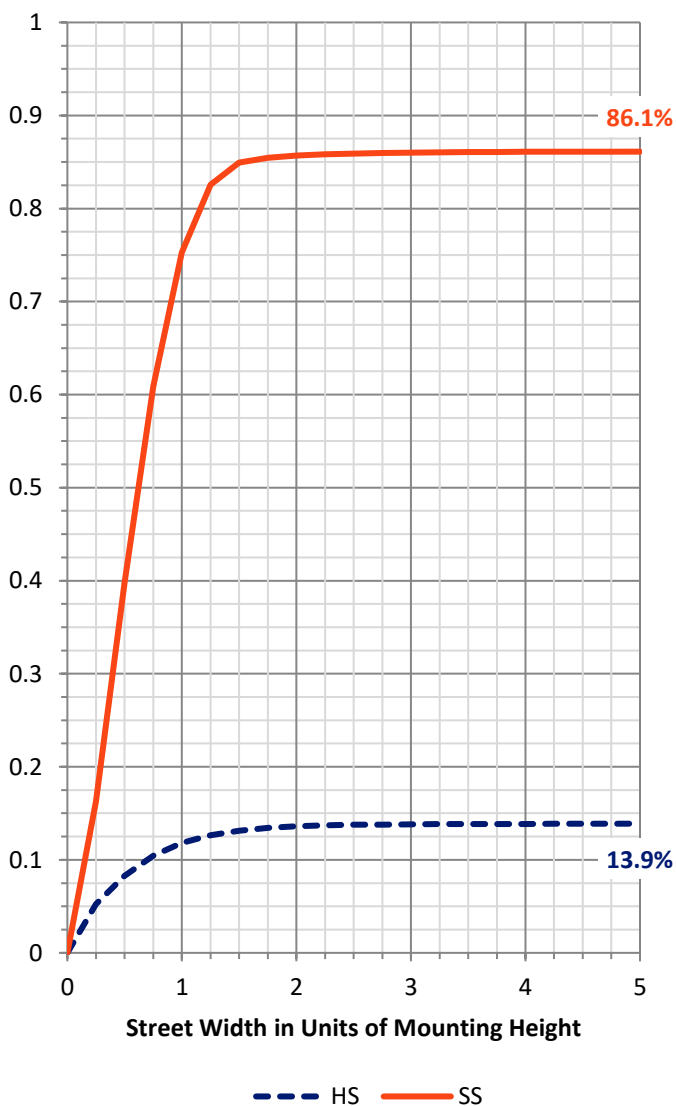
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1319.4	0.0	1319.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8128.3	0.0	8128.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	9447.8	0.0	9447.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	1.3
10°-20°	550.5	5.8
20°-30°	1154.8	12.2
30°-40°	1990.4	21.1
40°-50°	2909.0	30.8
50°-60°	2265.6	24.0
60°-70°	383.9	4.1
70°-80°	52.7	0.6
80°-90°	13.6	0.1
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°	9447.8	100.0
0°-180°	9447.8	100.0

Coefficient of Utilization

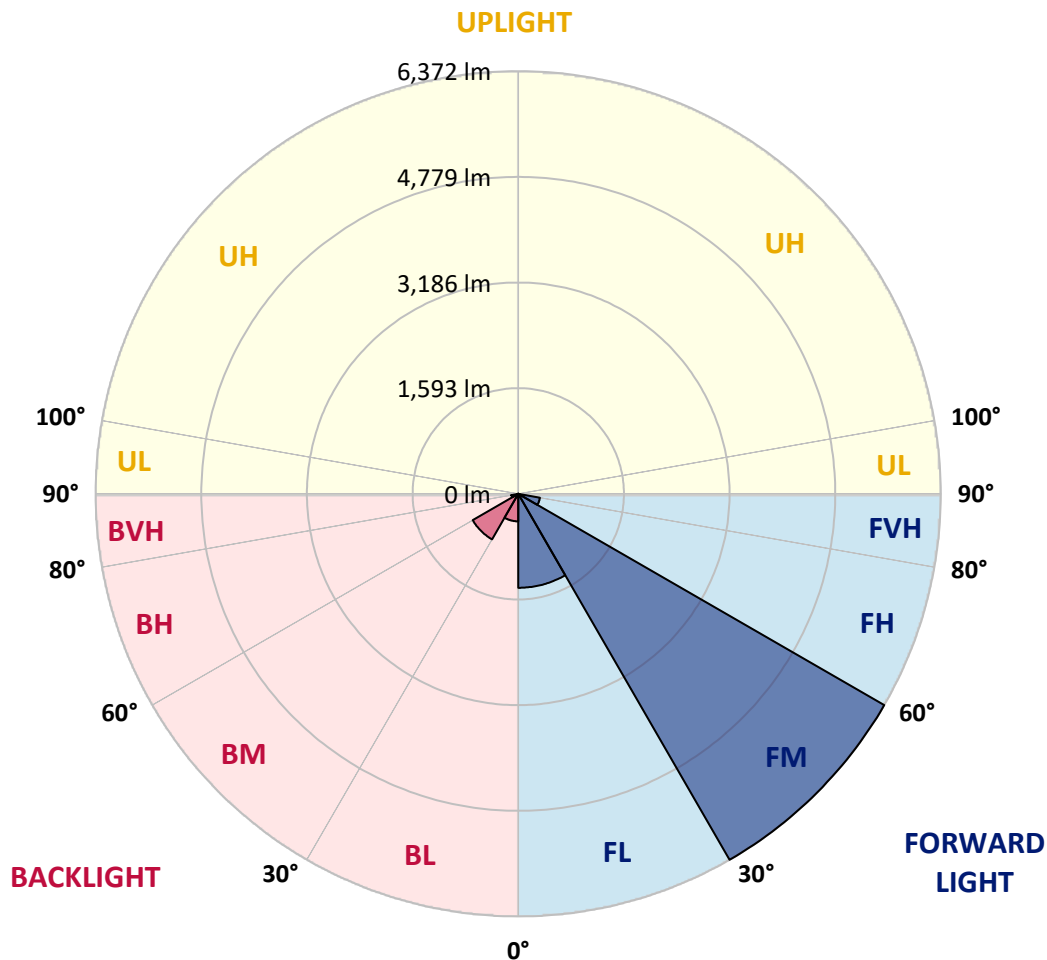


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.3	15.0			
FM (30°-60°)	6372.4	67.4			
FH (60°-80°)	332.4	3.5			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	415.2	4.4	B1/500		
BM (30°-60°)	792.7	8.4	B1/1000		
BH (60°-80°)	104.2	1.1	B0/110		G0/110
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6
2.5°	1281.5	1272.2	1252.0	1214.7	1199.2	1161.9	1140.1	1098.2	1071.8	1042.3	1009.7
5°	1805.0	1756.8	1727.3	1685.4	1562.7	1486.6	1360.7	1253.5	1203.8	1149.5	1074.9
7.5°	2345.5	2314.5	2274.1	2184.0	2100.1	1941.7	1725.7	1489.7	1388.7	1295.5	1147.9
10°	2792.9	2705.9	2701.3	2634.4	2542.8	2353.3	2093.9	1800.3	1620.1	1483.4	1252.0
12.5°	3105.1	3025.9	3061.7	3053.8	2968.5	2794.5	2494.7	2106.4	1918.4	1705.5	1359.1
15°	3389.4	3356.8	3345.9	3336.6	3302.4	3173.5	2904.7	2479.1	2207.3	1951.0	1480.3
17.5°	3667.4	3583.6	3624.0	3631.7	3628.6	3512.1	3260.5	2833.3	2513.3	2210.4	1607.7
20°	3914.4	3922.2	3867.8	3856.9	3847.7	3842.9	3597.5	3184.4	2889.3	2482.2	1773.9
22.5°	4231.3	4176.9	4225.1	4194.0	4133.4	4096.2	3908.2	3495.0	3215.4	2810.0	1943.2
25°	4605.7	4649.1	4535.8	4523.3	4456.5	4327.6	4158.3	3842.9	3529.2	3114.5	2126.6
27.5°	5067.0	4990.9	4961.4	4893.0	4771.8	4717.5	4518.7	4201.8	3908.2	3434.5	2303.6
30°	5463.1	5443.0	5295.4	5214.5	5108.9	5107.4	4829.4	4688.0	4402.1	3936.1	2547.5
32.5°	5786.2	5697.7	5643.3	5587.4	5501.9	5525.2	5290.6	5216.1	4928.8	4402.1	2834.8
35°	6002.1	5938.4	5905.8	5820.4	5795.5	5899.6	5801.7	5770.7	5534.5	5057.7	3171.9
37.5°	6070.4	6090.7	6084.5	5977.2	6030.1	6311.2	6437.0	6356.3	6232.0	5748.9	3537.0
40°	6131.1	6145.0	6114.0	6239.8	6390.4	6710.4	7165.6	7031.9	6985.3	6449.5	4044.9
42.5°	6165.2	6154.4	6154.4	6371.8	6600.2	7243.2	7869.2	7780.7	7744.9	7195.1	4632.1
45°	6017.6	5912.0	6025.4	6320.5	6780.3	7505.8	8431.5	8554.2	8503.0	8082.0	5318.7
47.5°	5466.2	5531.4	5595.2	5989.7	6561.3	7424.9	8776.4	9194.2	9289.0	8827.6	5769.1
50°	4632.1	4618.1	4750.1	5247.2	5941.5	7077.0	8709.6	9379.1	9551.5	9051.3	5863.9
52.5°	3369.2	3471.7	3614.6	4108.6	4931.9	6176.1	7847.5	8902.2	9132.1	8776.4	5801.7
55°	1961.9	1848.5	2170.0	2587.8	3364.5	4658.5	6634.3	7891.0	8316.6	8276.2	5487.9
57.5°	786.0	761.1	871.4	1174.3	1755.3	2887.7	4824.6	6483.7	7165.6	7580.3	4823.1
60°	344.8	337.1	396.1	478.4	717.6	1331.2	2639.1	4032.5	4743.9	5296.9	3319.5
62.5°	248.5	245.4	274.9	304.4	379.0	579.4	1109.1	1624.8	2025.5	2446.6	1486.6
65°	200.4	208.1	228.3	243.9	279.6	321.5	391.4	452.0	554.6	574.7	327.7
67.5°	163.1	169.3	188.0	205.0	211.3	174.0	180.2	158.4	158.4	141.4	113.4
70°	119.6	121.2	142.9	163.1	130.4	69.9	122.7	122.7	110.3	105.6	96.3
72.5°	88.6	90.1	107.1	101.0	51.3	43.5	90.1	99.4	90.1	85.4	77.7
75°	65.3	66.8	55.9	23.3	21.8	27.9	52.8	68.4	65.3	63.7	59.0
77.5°	12.4	9.3	7.7	10.8	15.6	23.3	34.1	42.0	43.5	46.6	43.5
80°	1.5	1.5	4.6	9.3	17.1	24.9	35.7	40.4	42.0	43.5	40.4
82.5°	0.0	1.5	4.6	9.3	17.1	23.3	31.0	35.7	38.9	40.4	38.9
85°	0.0	1.5	3.1	7.7	14.0	17.1	15.6	10.8	9.3	10.8	7.7
87.5°	0.0	0.0	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6	978.6
2.5°	991.0	984.8	963.1	939.7	919.5	928.9	919.5	911.8	914.9	911.8	908.7
5°	1045.4	1017.4	970.9	950.7	933.6	932.0	927.4	925.8	927.4	927.4	913.3
7.5°	1096.7	1051.6	1001.9	980.2	960.0	961.5	950.7	950.7	949.1	941.3	938.2
10°	1174.3	1113.7	1050.1	1011.2	986.4	981.7	970.9	960.0	960.0	960.0	944.4
12.5°	1259.7	1183.6	1096.7	1051.6	1022.1	998.8	981.7	978.6	961.5	958.4	950.7
15°	1334.3	1238.0	1127.7	1065.6	1028.3	997.3	970.9	953.8	946.0	941.3	935.1
17.5°	1407.3	1284.6	1144.9	1065.6	1025.2	989.5	961.5	946.0	927.4	930.5	918.0
20°	1505.2	1334.3	1149.5	1045.4	995.7	961.5	924.3	916.4	905.6	896.3	899.4
22.5°	1599.9	1370.1	1135.5	1020.6	949.1	908.7	890.0	880.8	876.1	868.3	857.5
25°	1685.4	1408.8	1113.7	975.5	899.4	869.8	852.8	851.3	840.3	840.3	820.1
27.5°	1772.3	1422.9	1076.5	922.7	855.9	838.8	831.1	828.0	823.3	812.4	798.4
30°	1871.8	1427.5	1022.1	868.3	817.0	798.4	809.3	817.0	796.8	776.7	782.9
32.5°	1954.1	1416.7	956.9	817.0	789.1	779.8	801.6	809.3	786.0	764.2	753.4
35°	2053.6	1390.3	893.1	776.7	761.1	779.8	798.4	798.4	751.9	725.4	719.2
37.5°	2204.2	1360.7	834.1	742.5	731.6	770.4	795.3	778.3	705.2	672.6	664.8
40°	2365.7	1342.1	776.7	708.3	716.1	755.0	768.9	716.1	641.5	621.3	615.1
42.5°	2600.3	1304.8	725.4	678.8	702.2	733.2	733.2	638.4	610.5	599.5	598.0
45°	2892.3	1278.4	680.4	654.0	681.9	689.7	664.8	598.0	577.9	574.7	576.3
47.5°	3035.3	1227.1	633.8	624.4	644.6	646.2	581.0	565.4	548.3	543.7	540.6
50°	3013.5	1135.5	573.1	585.6	613.6	598.0	529.7	532.8	517.3	515.7	508.0
52.5°	2861.3	991.0	512.6	542.1	573.1	528.1	487.8	484.7	484.7	464.5	456.7
55°	2536.6	798.4	439.6	476.8	514.2	444.2	433.4	430.3	422.5	403.8	399.2
57.5°	2008.5	585.6	330.8	371.2	436.5	377.4	375.9	362.0	341.7	327.7	327.7
60°	1194.6	337.1	208.1	226.8	288.9	306.0	340.2	334.0	299.8	278.0	271.8
62.5°	545.2	174.0	132.0	135.1	155.3	198.8	267.2	309.2	261.0	223.7	220.6
65°	183.3	128.9	108.7	104.1	107.1	119.6	160.0	219.0	208.1	172.4	166.2
67.5°	111.9	115.0	102.5	94.8	94.8	93.2	91.7	99.4	122.7	119.6	121.2
70°	96.3	105.6	94.8	85.4	82.3	77.7	65.3	54.3	46.6	54.3	57.4
72.5°	77.7	83.8	80.7	73.0	65.3	59.0	46.6	35.7	26.4	23.3	23.3
75°	57.4	62.1	65.3	55.9	49.7	42.0	34.1	23.3	14.0	9.3	9.3
77.5°	42.0	46.6	48.2	43.5	37.3	29.5	21.8	15.6	7.7	3.1	3.1
80°	35.7	42.0	46.6	43.5	38.9	27.9	20.2	10.8	6.2	1.5	1.5
82.5°	34.1	42.0	46.6	42.0	37.3	26.4	20.2	12.4	4.6	1.5	1.5
85°	7.7	10.8	14.0	17.1	20.2	20.2	15.6	9.3	4.6	1.5	1.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	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)