

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: P533375

Luminaire Tested: **GALN-SA8D-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46599 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

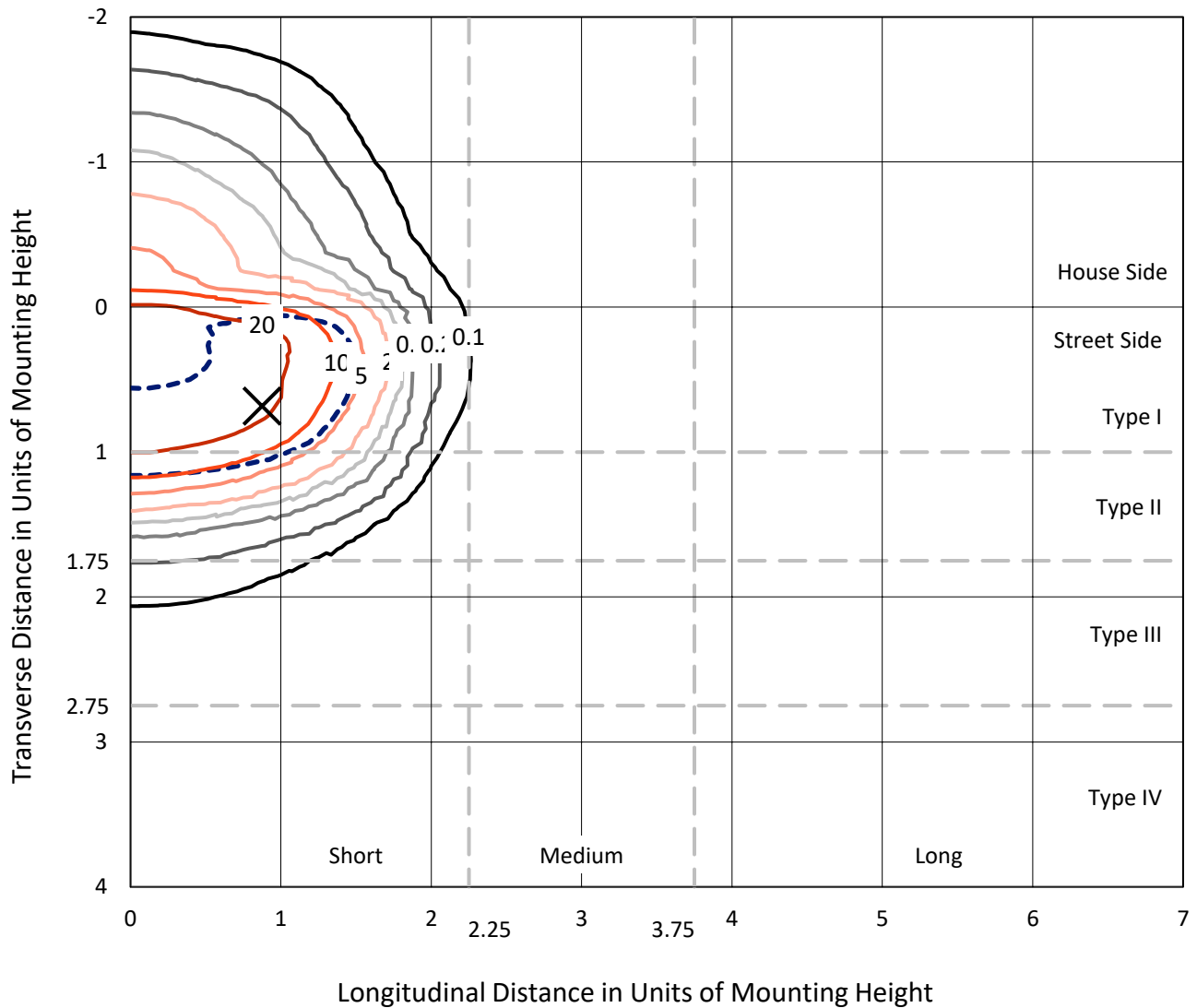
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

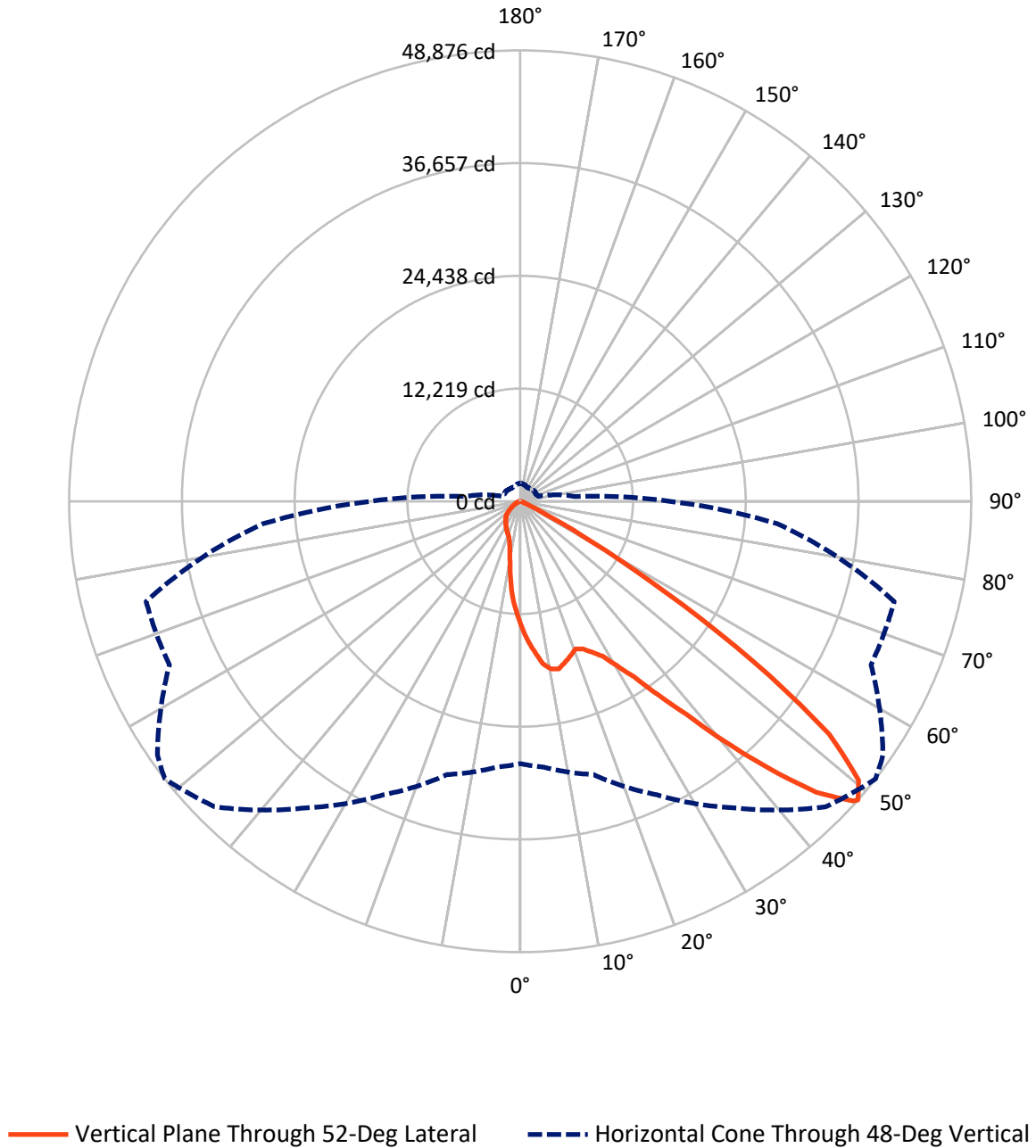
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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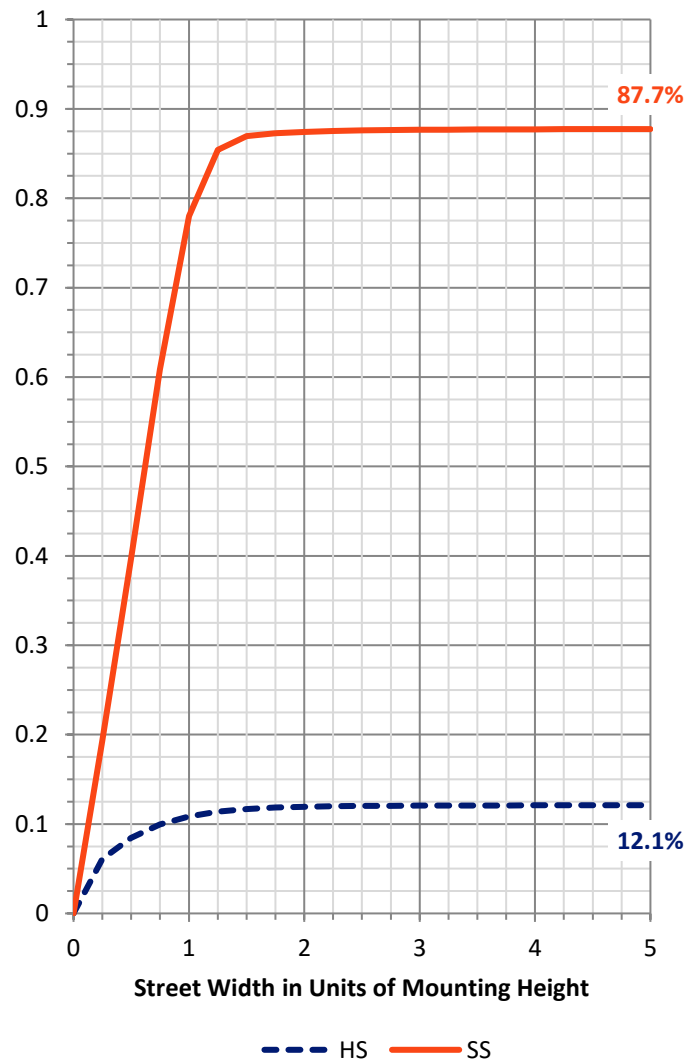
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5673.8	0.0	5673.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	40925.2	0.0	40925.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	46599.0	0.0	46599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.7	2.6
10°-20°	3218.9	6.9
20°-30°	5495.9	11.8
30°-40°	10120.8	21.7
40°-50°	15717.6	33.7
50°-60°	9459.3	20.3
60°-70°	1094.1	2.3
70°-80°	211.8	0.5
80°-90°	49.0	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°	46599.0	100.0
0°-180°	46599.0	100.0

Coefficient of Utilization



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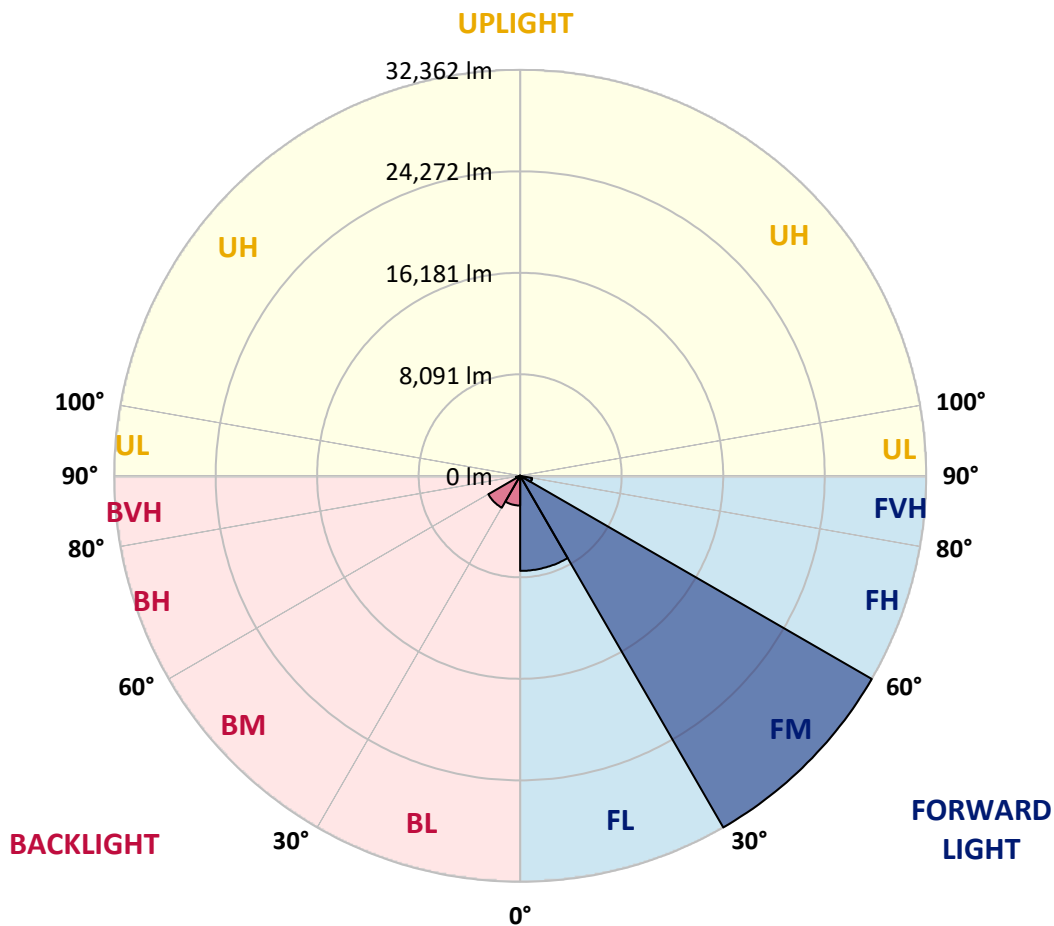
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7576.4	16.3			
FM (30°-60°)	32362.1	69.4			
FH (60°-80°)	963.4	2.1			G1/1800
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	2370.1	5.1	B3/2500		
BM (30°-60°)	2935.6	6.3	B3/5000		
BH (60°-80°)	342.4	0.7	B1/500		G1/500
BVH (80°-90°)	25.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0
2.5°	16310.1	15936.5	15970.4	15725.9	15583.2	15352.3	15039.8	14978.7	14639.0	14177.1	13708.4
5°	17777.4	17689.1	17804.6	17451.3	17464.9	17084.5	16350.9	16364.4	15583.2	14829.2	14102.4
7.5°	17872.5	17668.7	17784.2	18096.7	18280.1	18212.1	17797.8	17437.7	16697.3	15590.0	14530.3
10°	16004.4	16391.6	16513.9	17030.2	17763.8	18538.2	18490.7	18511.0	17892.9	16446.0	14897.1
12.5°	14883.6	14625.4	15039.8	15352.3	16459.5	17960.8	18646.9	18796.3	18843.9	17274.7	15264.0
15°	14374.1	14374.1	14442.0	14530.3	15331.9	16717.7	18117.0	18551.8	19577.5	18361.6	15841.4
17.5°	14693.4	14679.8	14774.9	14591.5	14890.3	15956.9	17627.9	18123.8	20399.5	19428.1	16296.5
20°	15664.8	15712.3	15651.2	15121.3	15141.7	15943.3	17084.5	17865.7	20956.5	20352.0	16901.1
22.5°	17016.6	17043.7	16697.3	16119.9	15950.1	16344.1	17397.0	17994.8	21404.9	21459.2	17084.5
25°	18579.0	18470.3	18402.4	17587.2	17070.9	17410.6	18103.5	18449.9	21683.4	22410.2	17607.6
27.5°	20746.0	20528.6	20114.2	19387.3	19006.9	18524.6	19020.5	19591.1	22478.2	23741.7	18178.2
30°	23945.5	23755.3	22946.9	22009.5	21010.9	20535.4	20691.6	21004.1	23911.5	25283.7	18932.2
32.5°	28761.7	28361.0	27192.5	25406.0	24047.4	22736.3	22695.6	23028.4	25195.4	27416.7	19828.9
35°	34067.1	33944.8	32226.2	30385.3	27756.4	25732.0	25766.0	25942.6	27654.5	30215.5	21004.1
37.5°	37592.7	38265.2	37171.5	35194.8	32987.0	30093.2	29359.5	29420.7	31030.6	33530.5	23123.5
40°	40316.7	39746.1	39875.2	39413.2	37905.2	35935.2	34311.7	33992.4	34936.6	37198.7	25229.4
42.5°	39127.9	39155.1	39949.9	41043.6	41417.2	41274.5	39617.0	39012.4	38278.8	40201.2	27233.3
45°	35772.2	36471.8	37504.4	40398.2	42938.8	45323.2	44997.1	43991.7	40588.4	42578.8	28388.1
47.5°	30419.2	30392.1	32083.5	35846.9	41491.9	47075.8	48556.7	47850.2	42225.6	42313.9	28150.4
48°	28442.5	28931.6	30677.4	35106.4	40574.8	46817.6	48875.9	47986.1	41947.0	41960.6	27946.6
50°	21024.5	20936.2	23109.9	28544.4	36240.9	43991.7	47530.9	48223.8	41940.2	40174.1	26520.0
52.5°	11106.6	11487.0	13069.8	17947.2	25623.4	36003.1	41926.7	43006.8	40459.4	37253.0	24468.5
55°	4721.2	4266.0	5482.0	8104.1	14414.8	24054.2	30758.9	33163.6	34209.8	32966.6	21404.9
57.5°	1684.7	1840.9	2119.4	3050.1	6059.4	13164.9	18341.2	20209.3	23700.9	24190.0	14584.7
60°	1080.1	1100.5	1188.8	1399.4	2275.7	5074.4	8701.9	10189.6	11772.3	12152.8	6806.6
62.5°	835.5	842.3	883.1	917.1	1080.1	1970.0	3267.5	3872.0	4021.5	3457.7	1786.6
65°	699.7	706.5	720.1	720.1	767.6	923.9	1141.2	1256.7	1222.7	1209.2	1012.2
67.5°	536.7	550.2	577.4	577.4	604.6	563.8	631.8	672.5	760.8	923.9	862.7
70°	421.2	428.0	448.3	461.9	461.9	407.6	455.1	495.9	557.0	686.1	679.3
72.5°	326.1	339.7	353.2	353.2	332.9	278.5	326.1	360.0	400.8	475.5	461.9
75°	251.3	251.3	258.1	210.6	163.0	142.7	197.0	237.8	298.9	312.5	258.1
77.5°	67.9	74.7	67.9	61.1	67.9	101.9	129.1	149.4	190.2	190.2	169.8
80°	0.0	6.8	20.4	40.8	67.9	95.1	115.5	129.1	149.4	163.0	156.2
82.5°	0.0	6.8	20.4	40.8	61.1	74.7	101.9	108.7	122.3	142.7	142.7
85°	0.0	6.8	13.6	27.2	40.8	47.6	47.6	40.8	40.8	34.0	27.2
87.5°	0.0	0.0	6.8	13.6	13.6	20.4	20.4	20.4	20.4	20.4	20.4
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°	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0	13457.0
2.5°	13524.9	13314.4	12995.1	12492.4	12010.1	11697.6	11398.7	11065.9	10882.5	10868.9	10767.0
5°	13688.0	13212.5	12451.6	11588.9	10665.1	9870.3	9068.7	8545.6	8076.9	7818.8	7771.2
7.5°	13776.3	13158.1	11928.6	10481.7	8905.7	7608.2	6711.5	6052.6	5794.5	5604.3	5597.5
10°	13959.7	13063.0	11147.4	9014.4	7064.8	5753.7	5135.5	4836.6	4694.0	4639.6	4558.1
12.5°	14095.6	12886.4	10345.8	7506.3	5583.9	4768.7	4497.0	4429.1	4435.9	4463.0	4429.1
15°	14285.8	12730.2	9265.7	6161.3	4687.2	4293.2	4293.2	4306.8	4401.9	4415.5	4408.7
17.5°	14272.2	12424.5	8151.7	5074.4	4143.8	4089.4	4109.8	4238.9	4300.0	4320.4	4272.8
20°	14435.2	12139.2	7003.6	4334.0	3838.1	3919.6	4055.4	4089.4	4164.1	4177.7	4123.4
22.5°	14387.7	11425.9	5937.1	3749.8	3607.1	3763.3	3899.2	3940.0	3919.6	3878.8	3872.0
25°	14299.4	10814.5	4958.9	3362.6	3437.3	3607.1	3736.2	3661.4	3620.7	3627.5	3634.3
27.5°	14143.1	10040.1	4150.5	3090.8	3206.3	3457.7	3450.9	3423.7	3464.5	3430.5	3464.5
30°	14115.9	9265.7	3484.8	2846.3	3036.5	3219.9	3233.5	3281.0	3328.6	3267.5	3328.6
32.5°	14156.7	8416.6	3009.3	2696.8	2934.6	2941.4	3090.8	3138.4	3104.4	2968.6	2982.1
35°	14469.2	7764.4	2662.9	2615.3	2771.6	2778.4	2921.0	2859.9	2710.4	2628.9	2676.5
37.5°	15128.1	7221.0	2499.8	2540.6	2554.2	2642.5	2649.3	2527.0	2540.6	2533.8	2561.0
40°	15970.4	6806.6	2384.4	2472.7	2459.1	2520.2	2275.7	2343.6	2404.7	2425.1	2438.7
42.5°	16547.9	6507.7	2309.6	2364.0	2336.8	2228.1	2092.3	2160.2	2207.7	2282.5	2296.0
45°	16806.0	6270.0	2221.3	2173.8	2173.8	1976.8	1922.4	1936.0	2044.7	2126.2	2112.6
47.5°	16384.8	6039.0	2065.1	1922.4	1970.0	1806.9	1745.8	1745.8	1861.3	1963.2	1942.8
48°	16221.8	5943.9	2071.9	1868.1	1902.1	1779.8	1718.6	1705.1	1834.1	1929.2	1929.2
50°	15413.4	5590.7	1895.3	1718.6	1650.7	1637.1	1596.4	1610.0	1691.5	1779.8	1779.8
52.5°	13837.4	4829.9	1603.2	1474.1	1351.8	1433.3	1453.7	1426.5	1467.3	1548.8	1542.0
55°	11548.2	3709.0	1283.9	1222.7	1127.6	1216.0	1256.7	1222.7	1182.0	1243.1	1243.1
57.5°	7397.6	1997.2	1025.7	1039.3	944.2	1032.5	1066.5	985.0	910.3	957.8	951.0
60°	3335.4	1195.6	842.3	822.0	760.8	862.7	917.1	822.0	720.1	754.0	788.0
62.5°	1249.9	849.1	638.5	625.0	611.4	706.5	733.6	658.9	557.0	577.4	584.2
65°	917.1	747.2	509.5	461.9	489.1	557.0	543.4	468.7	400.8	400.8	414.4
67.5°	781.2	652.1	414.4	360.0	360.0	366.8	339.7	298.9	278.5	292.1	305.7
70°	611.4	516.3	326.1	278.5	251.3	224.2	197.0	190.2	169.8	190.2	183.4
72.5°	394.0	346.4	251.3	210.6	190.2	156.2	129.1	122.3	101.9	95.1	95.1
75°	210.6	210.6	197.0	169.8	149.4	122.3	101.9	81.5	54.3	40.8	40.8
77.5°	149.4	163.0	176.6	163.0	135.9	101.9	81.5	54.3	27.2	13.6	13.6
80°	142.7	163.0	176.6	156.2	135.9	101.9	74.7	40.8	20.4	6.8	6.8
82.5°	129.1	149.4	163.0	142.7	122.3	88.3	67.9	40.8	20.4	6.8	6.8
85°	27.2	34.0	40.8	40.8	47.6	61.1	47.6	34.0	13.6	6.8	6.8
87.5°	20.4	20.4	20.4	20.4	20.4	20.4	13.6	13.6	6.8	6.8	6.8
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)