

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: P527279

Luminaire Tested: **GALN-SA2B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527279
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-SA2B-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 7050 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

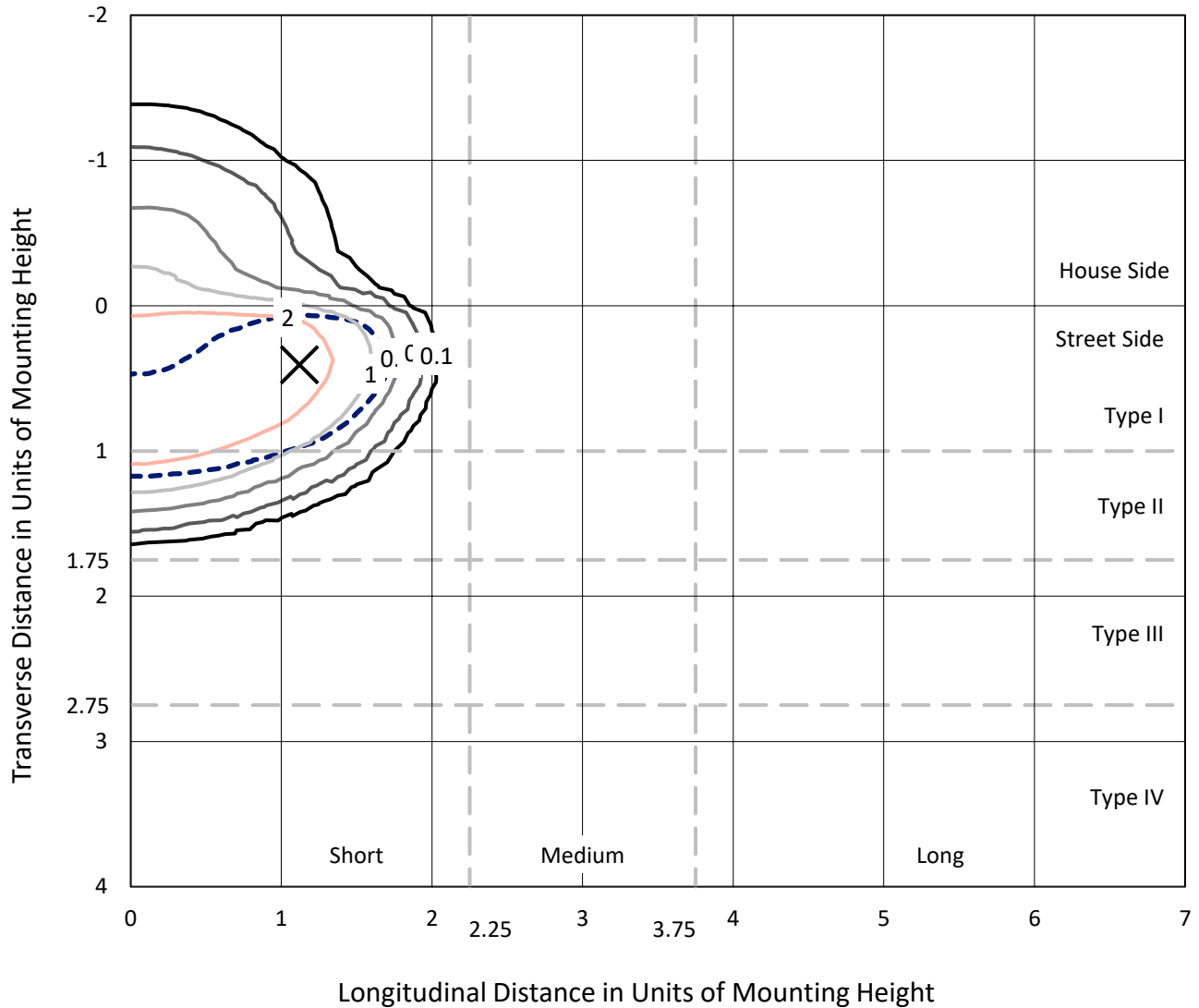
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

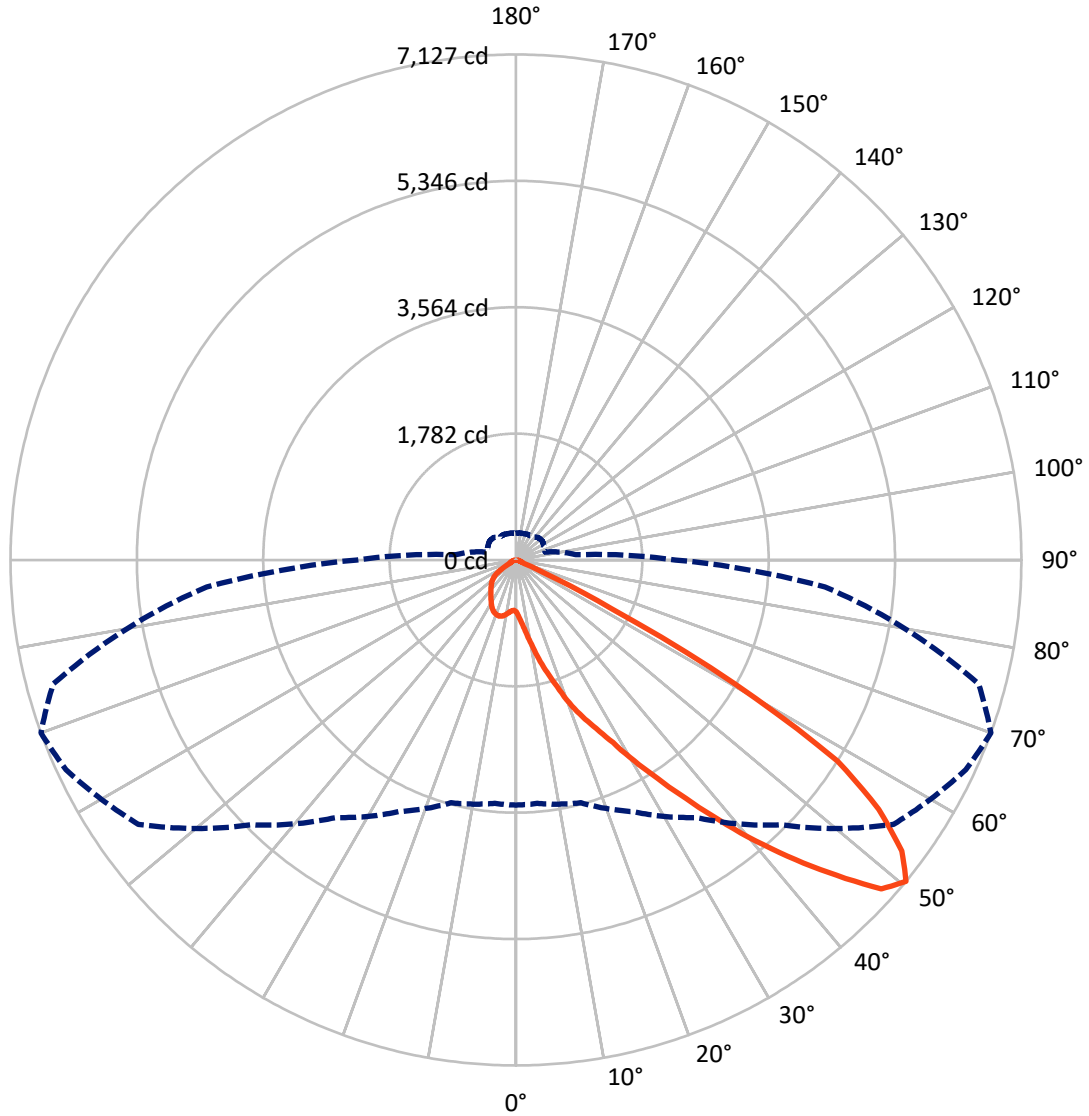
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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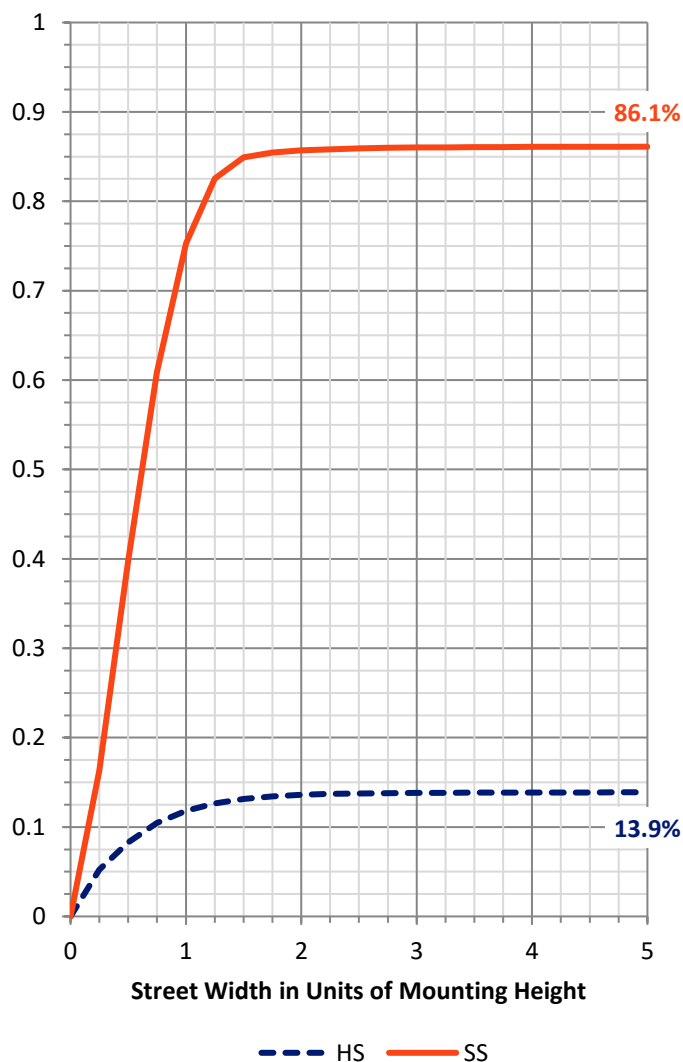
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	984.6	0.0	984.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6065.4	0.0	6065.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	7050.0	0.0	7050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.3
10°-20°	410.8	5.8
20°-30°	861.7	12.2
30°-40°	1485.3	21.1
40°-50°	2170.7	30.8
50°-60°	1690.6	24.0
60°-70°	286.4	4.1
70°-80°	39.4	0.6
80°-90°	10.2	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°	7050.0	100.0
0°-180°	7050.0	100.0

Coefficient of Utilization



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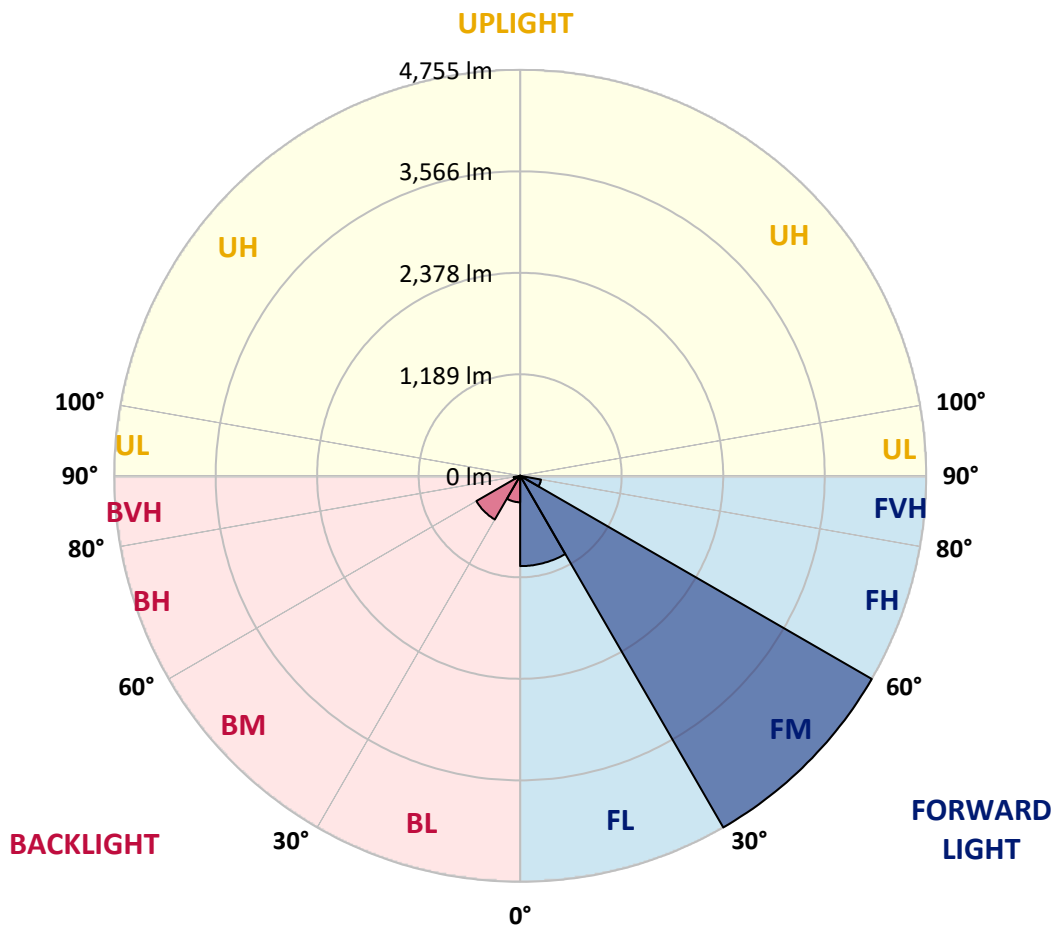
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.6	15.0			
FM (30°-60°)	4755.1	67.4			
FH (60°-80°)	248.0	3.5			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	309.8	4.4	B1/500		
BM (30°-60°)	591.5	8.4	B1/1000		
BH (60°-80°)	77.8	1.1	B0/110		G0/110
BVH (80°-90°)	5.5	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°	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2
2.5°	956.3	949.3	934.2	906.4	894.8	867.0	850.8	819.5	799.8	777.8	753.4
5°	1346.9	1311.0	1288.9	1257.6	1166.1	1109.3	1015.4	935.4	898.3	857.7	802.1
7.5°	1750.3	1727.1	1696.9	1629.7	1567.1	1448.9	1287.8	1111.6	1036.2	966.7	856.6
10°	2084.1	2019.2	2015.7	1965.9	1897.5	1756.1	1562.5	1343.4	1209.0	1107.0	934.2
12.5°	2317.1	2258.0	2284.6	2278.8	2215.1	2085.2	1861.5	1571.8	1431.5	1272.7	1014.2
15°	2529.2	2504.8	2496.7	2489.8	2464.3	2368.1	2167.5	1849.9	1647.1	1455.8	1104.6
17.5°	2736.7	2674.1	2704.2	2710.0	2707.7	2620.8	2433.0	2114.2	1875.4	1649.4	1199.7
20°	2921.0	2926.8	2886.2	2878.1	2871.1	2867.6	2684.5	2376.2	2156.0	1852.3	1323.7
22.5°	3157.4	3116.9	3152.8	3129.6	3084.4	3056.6	2916.3	2608.0	2399.4	2096.8	1450.1
25°	3436.8	3469.2	3384.6	3375.3	3325.5	3229.3	3102.9	2867.6	2633.5	2324.0	1586.8
27.5°	3781.0	3724.2	3702.2	3651.2	3560.8	3520.2	3371.9	3135.4	2916.3	2562.8	1719.0
30°	4076.6	4061.5	3951.4	3891.1	3812.3	3811.2	3603.7	3498.2	3284.9	2937.2	1900.9
32.5°	4317.7	4251.6	4211.1	4169.3	4105.6	4123.0	3947.9	3892.3	3677.9	3284.9	2115.4
35°	4478.8	4431.3	4406.9	4343.2	4324.7	4402.3	4329.3	4306.1	4129.9	3774.1	2366.9
37.5°	4529.8	4544.9	4540.2	4460.3	4499.7	4709.5	4803.4	4743.1	4650.4	4289.9	2639.3
40°	4575.0	4585.5	4562.3	4656.2	4768.6	5007.4	5347.0	5247.3	5212.5	4812.6	3018.3
42.5°	4600.5	4592.4	4592.4	4754.7	4925.1	5404.9	5872.1	5806.0	5779.3	5369.0	3456.5
45°	4490.4	4411.6	4496.2	4716.4	5059.5	5600.8	6291.7	6383.2	6345.0	6030.9	3968.8
47.5°	4078.9	4127.6	4175.1	4469.5	4896.1	5540.6	6549.0	6860.8	6931.5	6587.2	4304.9
50°	3456.5	3446.0	3544.6	3915.5	4433.6	5280.9	6499.1	6998.7	7127.4	6754.2	4375.7
52.5°	2514.1	2590.6	2697.3	3065.9	3680.2	4608.6	5855.8	6642.9	6814.4	6549.0	4329.3
55°	1464.0	1379.3	1619.3	1931.1	2510.6	3476.2	4950.6	5888.3	6205.9	6175.8	4095.1
57.5°	586.5	568.0	650.3	876.3	1309.8	2154.8	3600.2	4838.1	5347.0	5656.5	3599.0
60°	257.3	251.5	295.6	357.0	535.5	993.4	1969.3	3009.1	3539.9	3952.6	2477.0
62.5°	185.5	183.1	205.2	227.2	282.8	432.3	827.6	1212.4	1511.5	1825.6	1109.3
65°	149.5	155.3	170.4	182.0	208.6	239.9	292.1	337.3	413.8	428.9	244.6
67.5°	121.7	126.3	140.3	153.0	157.6	129.8	134.5	118.2	118.2	105.5	84.6
70°	89.3	90.4	106.6	121.7	97.4	52.2	91.6	91.6	82.3	78.8	71.9
72.5°	66.1	67.2	80.0	75.3	38.3	32.5	67.2	74.2	67.2	63.8	58.0
75°	48.7	49.8	41.7	17.4	16.2	20.9	39.4	51.0	48.7	47.5	44.0
77.5°	9.3	7.0	5.8	8.1	11.6	17.4	25.5	31.3	32.5	34.8	32.5
80°	1.2	1.2	3.5	7.0	12.8	18.5	26.7	30.1	31.3	32.5	30.1
82.5°	0.0	1.2	3.5	7.0	12.8	17.4	23.2	26.7	29.0	30.1	29.0
85°	0.0	1.2	2.3	5.8	10.4	12.8	11.6	8.1	7.0	8.1	5.8
87.5°	0.0	0.0	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2	730.2
2.5°	739.5	734.9	718.7	701.3	686.2	693.1	686.2	680.4	682.7	680.4	678.1
5°	780.1	759.2	724.4	709.4	696.6	695.5	692.0	690.8	692.0	692.0	681.6
7.5°	818.3	784.7	747.6	731.4	716.3	717.5	709.4	709.4	708.2	702.4	700.1
10°	876.3	831.1	783.6	754.6	736.0	732.6	724.4	716.3	716.3	716.3	704.7
12.5°	940.0	883.2	818.3	784.7	762.7	745.3	732.6	730.2	717.5	715.2	709.4
15°	995.7	923.8	841.5	795.2	767.3	744.2	724.4	711.7	705.9	702.4	697.8
17.5°	1050.2	958.6	854.3	795.2	765.0	738.4	717.5	705.9	692.0	694.3	685.0
20°	1123.2	995.7	857.7	780.1	743.0	717.5	689.7	683.9	675.8	668.8	671.1
22.5°	1193.9	1022.3	847.3	761.5	708.2	678.1	664.2	657.2	653.7	647.9	639.8
25°	1257.6	1051.3	831.1	727.9	671.1	649.1	636.4	635.2	627.1	627.1	612.0
27.5°	1322.5	1061.7	803.3	688.5	638.7	625.9	620.1	617.8	614.3	606.2	595.8
30°	1396.7	1065.2	762.7	647.9	609.7	595.8	603.9	609.7	594.6	579.6	584.2
32.5°	1458.2	1057.1	714.0	609.7	588.8	581.9	598.1	603.9	586.5	570.3	562.2
35°	1532.3	1037.4	666.5	579.6	568.0	581.9	595.8	595.8	561.0	541.3	536.7
37.5°	1644.8	1015.4	622.4	554.1	545.9	574.9	593.5	580.7	526.2	501.9	496.1
40°	1765.3	1001.5	579.6	528.6	534.4	563.3	573.8	534.4	478.7	463.6	459.0
42.5°	1940.4	973.7	541.3	506.5	523.9	547.1	547.1	476.4	455.5	447.4	446.3
45°	2158.3	953.9	507.7	488.0	508.9	514.6	496.1	446.3	431.2	428.9	430.0
47.5°	2264.9	915.7	472.9	466.0	481.0	482.2	433.5	421.9	409.2	405.7	403.4
50°	2248.7	847.3	427.7	437.0	457.8	446.3	395.3	397.6	386.0	384.8	379.0
52.5°	2135.1	739.5	382.5	404.5	427.7	394.1	364.0	361.6	361.6	346.6	340.8
55°	1892.8	595.8	328.0	355.8	383.7	331.5	323.4	321.1	315.3	301.4	297.9
57.5°	1498.7	437.0	246.9	277.0	325.7	281.7	280.5	270.1	255.0	244.6	244.6
60°	891.4	251.5	155.3	169.2	215.6	228.3	253.8	249.2	223.7	207.5	202.8
62.5°	406.8	129.8	98.5	100.8	115.9	148.4	199.4	230.7	194.7	166.9	164.6
65°	136.8	96.2	81.1	77.7	80.0	89.3	119.4	163.4	155.3	128.7	124.0
67.5°	83.5	85.8	76.5	70.7	70.7	69.5	68.4	74.2	91.6	89.3	90.4
70°	71.9	78.8	70.7	63.8	61.4	58.0	48.7	40.6	34.8	40.6	42.9
72.5°	58.0	62.6	60.3	54.5	48.7	44.0	34.8	26.7	19.7	17.4	17.4
75°	42.9	46.4	48.7	41.7	37.1	31.3	25.5	17.4	10.4	7.0	7.0
77.5°	31.3	34.8	35.9	32.5	27.8	22.0	16.2	11.6	5.8	2.3	2.3
80°	26.7	31.3	34.8	32.5	29.0	20.9	15.1	8.1	4.6	1.2	1.2
82.5°	25.5	31.3	34.8	31.3	27.8	19.7	15.1	9.3	3.5	1.2	1.2
85°	5.8	8.1	10.4	12.8	15.1	15.1	11.6	7.0	3.5	1.2	1.2
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	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)