

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: P533935

Luminaire Tested: **GALN-SA9B-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533935
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-SA9B-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 25079 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

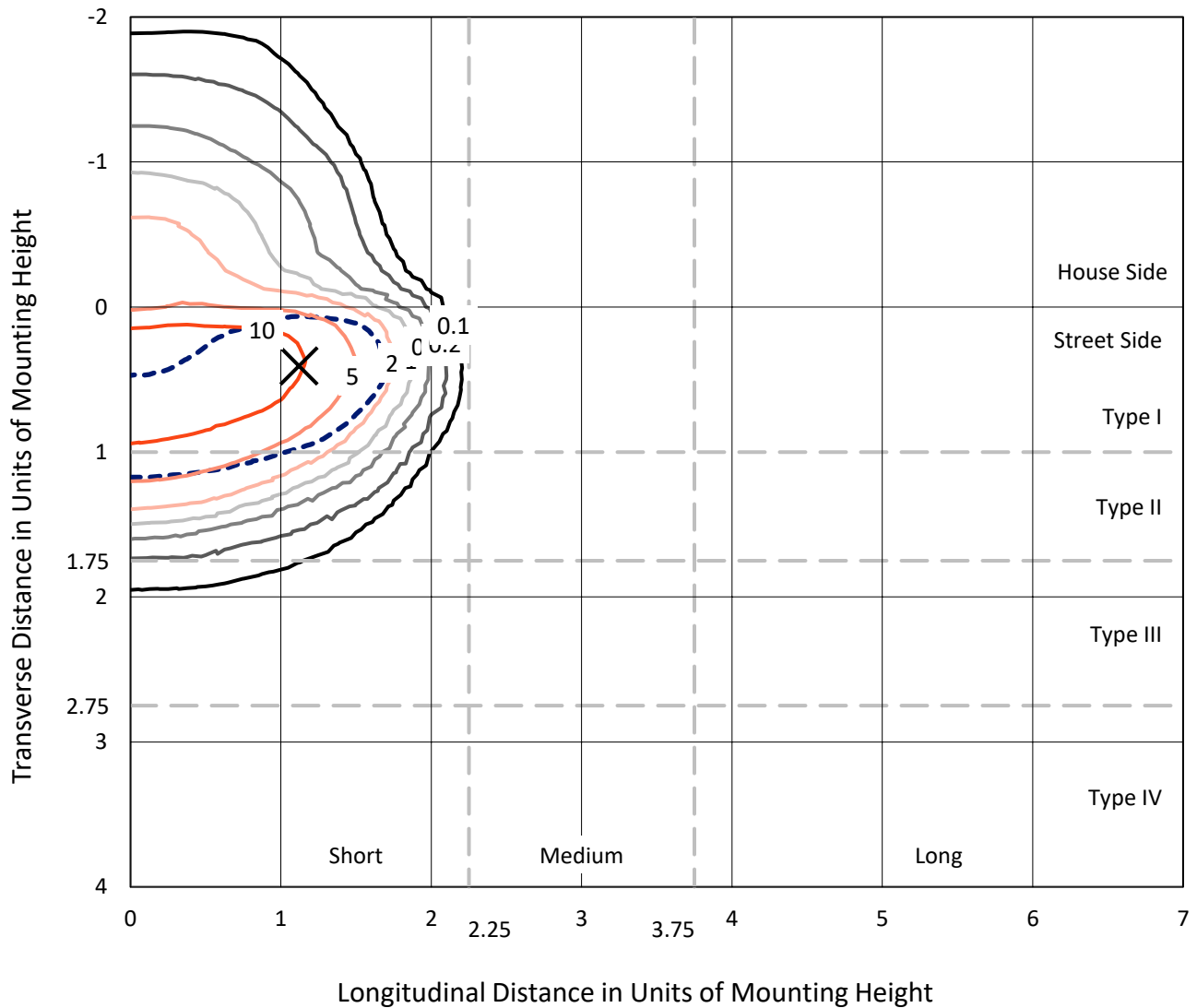
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

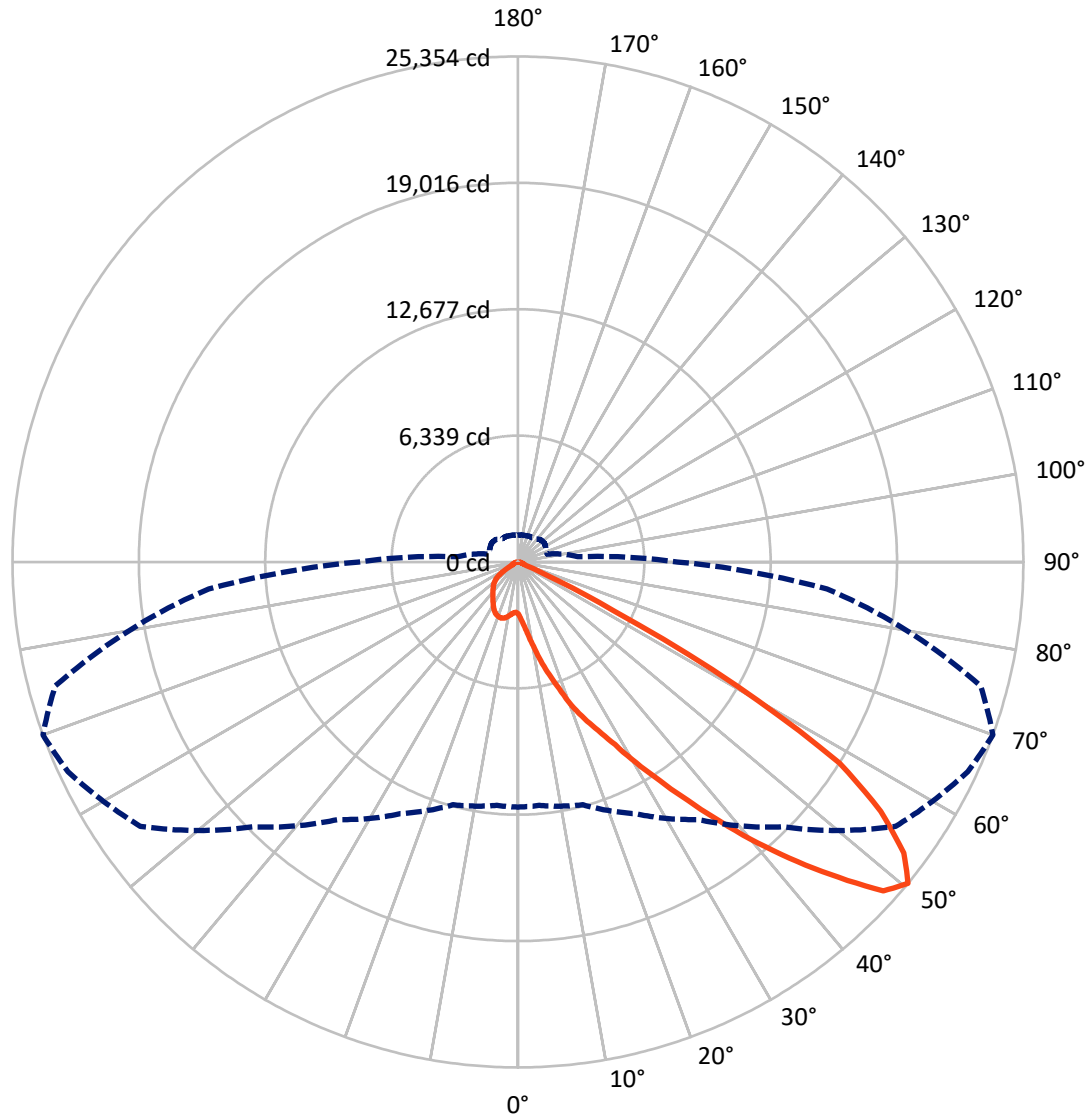
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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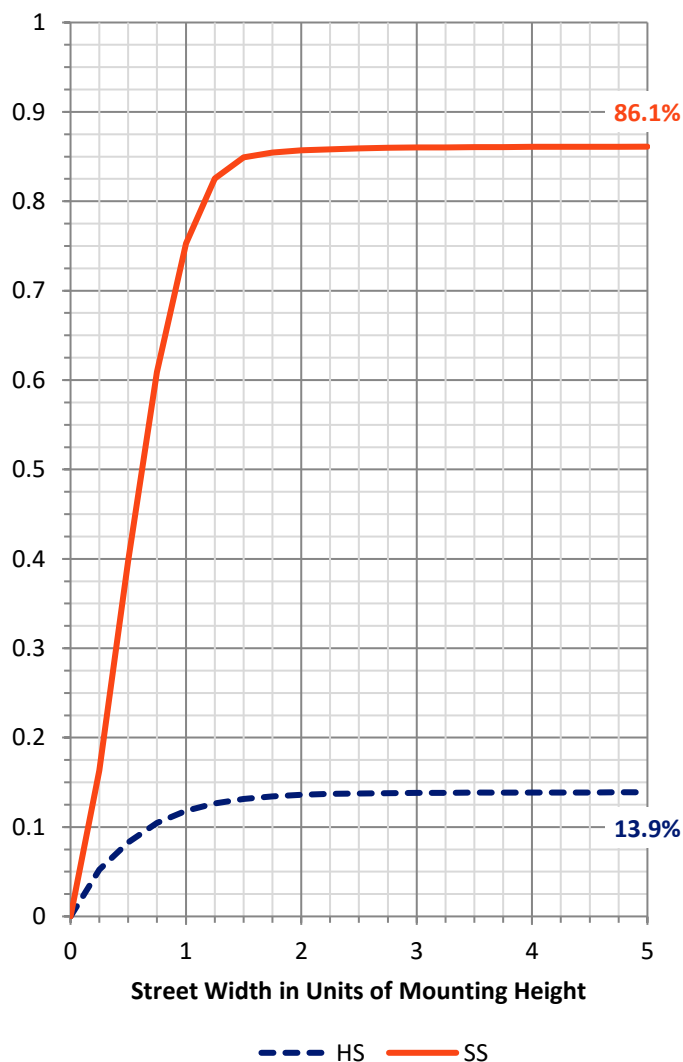
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3502.4	0.0	3502.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21576.5	0.0	21576.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	25079.0	0.0	25079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.8	1.3
10°-20°	1461.2	5.8
20°-30°	3065.3	12.2
30°-40°	5283.6	21.1
40°-50°	7721.9	30.8
50°-60°	6014.1	24.0
60°-70°	1019.0	4.1
70°-80°	140.0	0.6
80°-90°	36.2	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°	25079.0	100.0
0°-180°	25079.0	100.0

Coefficient of Utilization



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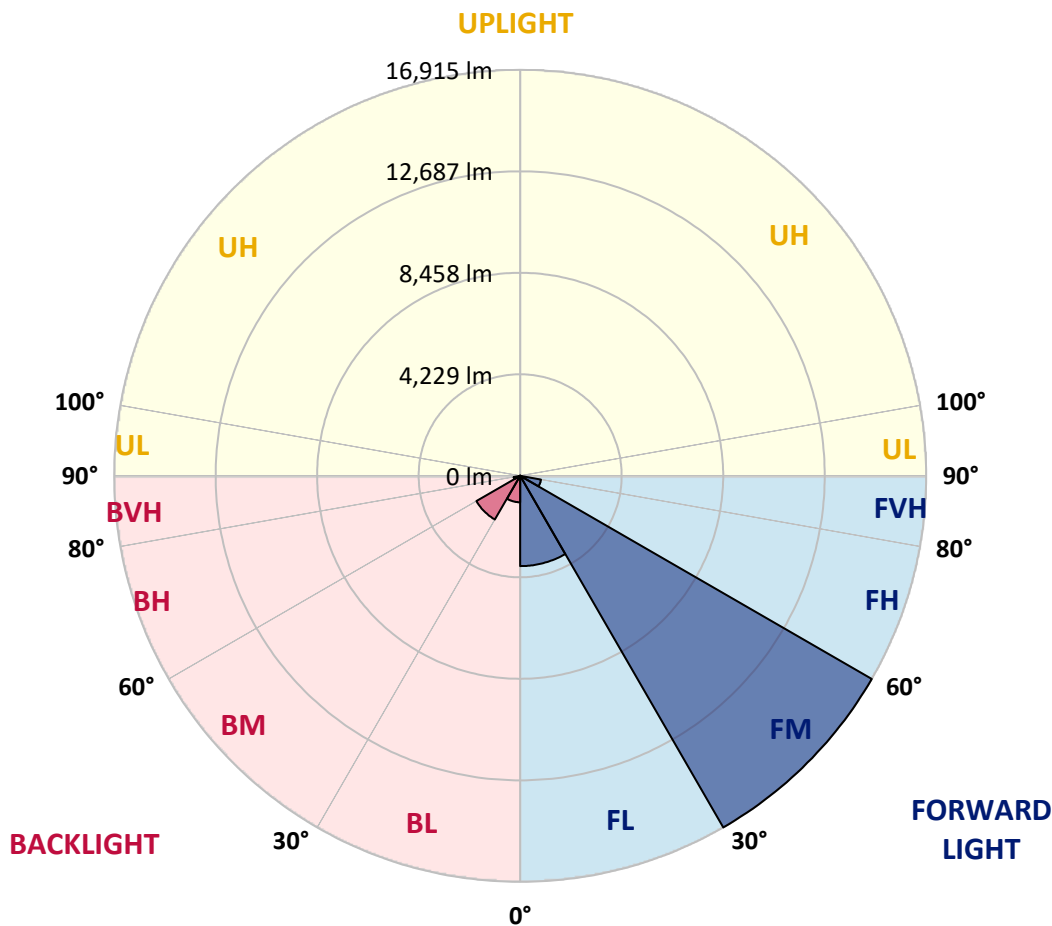
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3762.1	15.0			
FM (30°-60°)	16915.3	67.4			
FH (60°-80°)	882.3	3.5			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1102.1	4.4	B3/2500		
BM (30°-60°)	2104.2	8.4	B2/2500		
BH (60°-80°)	276.7	1.1	B1/500		G1/500
BVH (80°-90°)	19.5	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7
2.5°	3401.7	3377.0	3323.4	3224.4	3183.2	3084.2	3026.5	2915.2	2845.1	2766.7	2680.2
5°	4791.3	4663.5	4585.1	4473.8	4148.1	3946.0	3612.0	3327.5	3195.6	3051.3	2853.3
7.5°	6226.2	6143.7	6036.5	5797.4	5574.7	5154.1	4581.0	3954.3	3686.2	3438.8	3047.1
10°	7413.7	7182.8	7170.5	6993.1	6749.9	6246.8	5558.2	4778.9	4300.6	3937.8	3323.4
12.5°	8242.5	8032.2	8127.1	8106.4	7879.7	7417.8	6622.0	5591.2	5092.3	4527.4	3607.9
15°	8997.1	8910.5	8881.6	8856.9	8766.2	8423.9	7710.6	6580.8	5859.2	5178.9	3929.5
17.5°	9735.2	9512.5	9619.7	9640.3	9632.1	9322.8	8654.8	7520.9	6671.5	5867.5	4267.6
20°	10390.8	10411.4	10267.1	10238.2	10213.5	10201.1	9549.6	8452.8	7669.4	6589.1	4708.8
22.5°	11231.9	11087.6	11215.4	11133.0	10972.2	10873.2	10374.3	9277.5	8535.3	7459.1	5158.3
25°	12225.6	12341.1	12040.1	12007.1	11829.8	11487.6	11038.1	10201.1	9368.2	8267.3	5644.8
27.5°	13450.3	13248.2	13169.9	12988.5	12666.8	12522.5	11994.7	11153.6	10374.3	9116.7	6114.9
30°	14501.7	14448.1	14056.4	13842.0	13561.6	13557.5	12819.4	12444.2	11685.5	10448.5	6762.2
32.5°	15359.4	15124.3	14980.0	14831.6	14604.8	14666.6	14044.0	13846.1	13083.3	11685.5	7525.1
35°	15932.5	15763.4	15676.9	15450.1	15384.1	15660.4	15400.6	15318.1	14691.4	13425.5	8419.8
37.5°	16113.9	16167.5	16151.0	15866.5	16006.7	16753.0	17087.0	16872.6	16542.8	15260.4	9388.8
40°	16274.7	16311.8	16229.4	16563.4	16963.3	17812.7	19020.9	18666.3	18542.6	17120.0	10737.1
42.5°	16365.5	16336.6	16336.6	16913.9	17520.0	19227.0	20888.7	20653.7	20558.9	19099.2	12295.7
45°	15973.7	15693.3	15994.4	16777.8	17998.3	19923.9	22381.4	22707.1	22571.0	21453.6	14118.2
47.5°	14510.0	14683.1	14852.2	15899.5	17416.9	19709.5	23296.7	24405.9	24657.4	23432.8	15314.0
50°	12295.7	12258.6	12609.1	13928.6	15771.7	18785.8	23119.4	24896.6	25354.3	24026.6	15565.5
52.5°	8943.5	9215.6	9595.0	10906.2	13091.5	16394.3	20831.0	23630.7	24241.0	23296.7	15400.6
55°	5207.8	4906.7	5760.3	6869.4	8931.1	12365.8	17610.7	20946.5	22076.2	21969.0	14567.7
57.5°	2086.4	2020.4	2313.2	3117.2	4659.3	7665.2	12807.0	17210.7	19020.9	20121.8	12802.9
60°	915.4	894.8	1051.4	1270.0	1905.0	3533.7	7005.5	10704.1	12592.6	14060.5	8811.5
62.5°	659.7	651.5	729.8	808.2	1006.1	1538.0	2944.0	4313.0	5376.8	6494.2	3946.0
65°	531.9	552.5	606.1	647.4	742.2	853.5	1039.1	1199.9	1472.0	1525.6	870.0
67.5°	432.9	449.4	498.9	544.3	560.8	461.8	478.3	420.6	420.6	375.2	301.0
70°	317.5	321.6	379.3	432.9	346.4	185.5	325.7	325.7	292.8	280.4	255.6
72.5°	235.0	239.2	284.5	268.0	136.1	115.5	239.2	263.9	239.2	226.8	206.2
75°	173.2	177.3	148.4	61.8	57.7	74.2	140.2	181.4	173.2	169.1	156.7
77.5°	33.0	24.7	20.6	28.9	41.2	61.8	90.7	111.3	115.5	123.7	115.5
80°	4.1	4.1	12.4	24.7	45.4	66.0	94.8	107.2	111.3	115.5	107.2
82.5°	0.0	4.1	12.4	24.7	45.4	61.8	82.5	94.8	103.1	107.2	103.1
85°	0.0	4.1	8.2	20.6	37.1	45.4	41.2	28.9	24.7	28.9	20.6
87.5°	0.0	0.0	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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°	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7	2597.7
2.5°	2630.7	2614.2	2556.5	2494.6	2441.0	2465.7	2441.0	2420.4	2428.6	2420.4	2412.1
5°	2775.0	2700.8	2577.1	2523.5	2478.1	2474.0	2461.6	2457.5	2461.6	2461.6	2424.5
7.5°	2911.1	2791.5	2659.5	2601.8	2548.2	2552.3	2523.5	2523.5	2519.3	2498.7	2490.5
10°	3117.2	2956.4	2787.4	2684.3	2618.3	2605.9	2577.1	2548.2	2548.2	2548.2	2507.0
12.5°	3344.0	3142.0	2911.1	2791.5	2713.1	2651.3	2605.9	2597.7	2552.3	2544.1	2523.5
15°	3541.9	3286.3	2993.5	2828.6	2729.6	2647.2	2577.1	2531.7	2511.1	2498.7	2482.2
17.5°	3735.7	3410.0	3038.9	2828.6	2721.4	2626.6	2552.3	2511.1	2461.6	2469.9	2436.9
20°	3995.5	3541.9	3051.3	2775.0	2643.0	2552.3	2453.4	2432.8	2403.9	2379.2	2387.4
22.5°	4247.0	3636.8	3014.1	2709.0	2519.3	2412.1	2362.7	2337.9	2325.6	2304.9	2276.1
25°	4473.8	3739.8	2956.4	2589.4	2387.4	2309.1	2263.7	2259.6	2230.7	2230.7	2177.1
27.5°	4704.7	3777.0	2857.5	2449.3	2271.9	2226.6	2206.0	2197.7	2185.4	2156.5	2119.4
30°	4968.6	3789.3	2713.1	2304.9	2168.9	2119.4	2148.2	2168.9	2115.3	2061.7	2078.2
32.5°	5187.1	3760.5	2540.0	2168.9	2094.6	2069.9	2127.6	2148.2	2086.4	2028.7	1999.8
35°	5451.0	3690.4	2370.9	2061.7	2020.4	2069.9	2119.4	2119.4	1995.7	1925.6	1909.1
37.5°	5851.0	3612.0	2214.2	1970.9	1942.1	2045.2	2111.1	2065.8	1872.0	1785.4	1764.8
40°	6279.8	3562.5	2061.7	1880.2	1900.8	2003.9	2041.0	1900.8	1702.9	1649.3	1632.8
42.5°	6902.4	3463.6	1925.6	1801.9	1863.7	1946.2	1946.2	1694.7	1620.5	1591.6	1587.5
45°	7677.6	3393.5	1806.0	1735.9	1810.1	1830.8	1764.8	1587.5	1533.9	1525.6	1529.8
47.5°	8057.0	3257.4	1682.3	1657.6	1711.2	1715.3	1542.1	1500.9	1455.5	1443.2	1434.9
50°	7999.2	3014.1	1521.5	1554.5	1628.7	1587.5	1406.1	1414.3	1373.1	1368.9	1348.3
52.5°	7595.2	2630.7	1360.7	1439.0	1521.5	1401.9	1294.7	1286.5	1286.5	1232.9	1212.3
55°	6733.4	2119.4	1166.9	1265.9	1364.8	1179.3	1150.4	1142.2	1121.5	1072.1	1059.7
57.5°	5331.5	1554.5	878.3	985.5	1158.7	1002.0	997.8	960.7	907.1	870.0	870.0
60°	3170.8	894.8	552.5	602.0	766.9	812.3	903.0	886.5	795.8	738.1	721.6
62.5°	1447.3	461.8	350.5	358.7	412.3	527.8	709.2	820.5	692.7	593.8	585.5
65°	486.6	342.2	288.6	276.3	284.5	317.5	424.7	581.4	552.5	457.7	441.2
67.5°	296.9	305.1	272.1	251.5	251.5	247.4	243.3	263.9	325.7	317.5	321.6
70°	255.6	280.4	251.5	226.8	218.5	206.2	173.2	144.3	123.7	144.3	152.6
72.5°	206.2	222.7	214.4	193.8	173.2	156.7	123.7	94.8	70.1	61.8	61.8
75°	152.6	164.9	173.2	148.4	131.9	111.3	90.7	61.8	37.1	24.7	24.7
77.5°	111.3	123.7	127.8	115.5	99.0	78.3	57.7	41.2	20.6	8.2	8.2
80°	94.8	111.3	123.7	115.5	103.1	74.2	53.6	28.9	16.5	4.1	4.1
82.5°	90.7	111.3	123.7	111.3	99.0	70.1	53.6	33.0	12.4	4.1	4.1
85°	20.6	28.9	37.1	45.4	53.6	53.6	41.2	24.7	12.4	4.1	4.1
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	4.1	4.1	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)