

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: P532375

Luminaire Tested: **GALN-SA7D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532375
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-SA7D-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 29803 lumens
Efficiency: N/A
Efficacy: 68.8 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

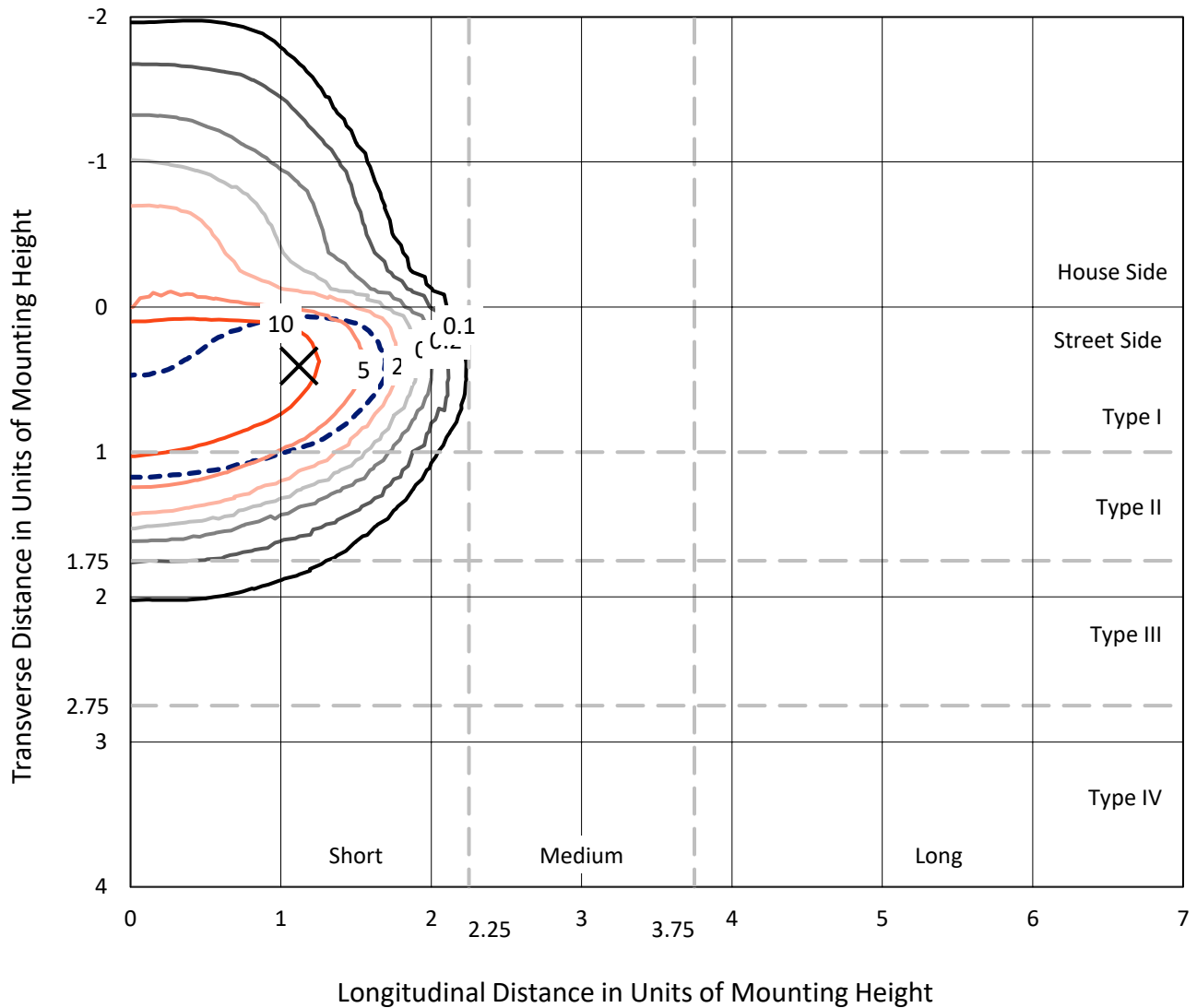
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

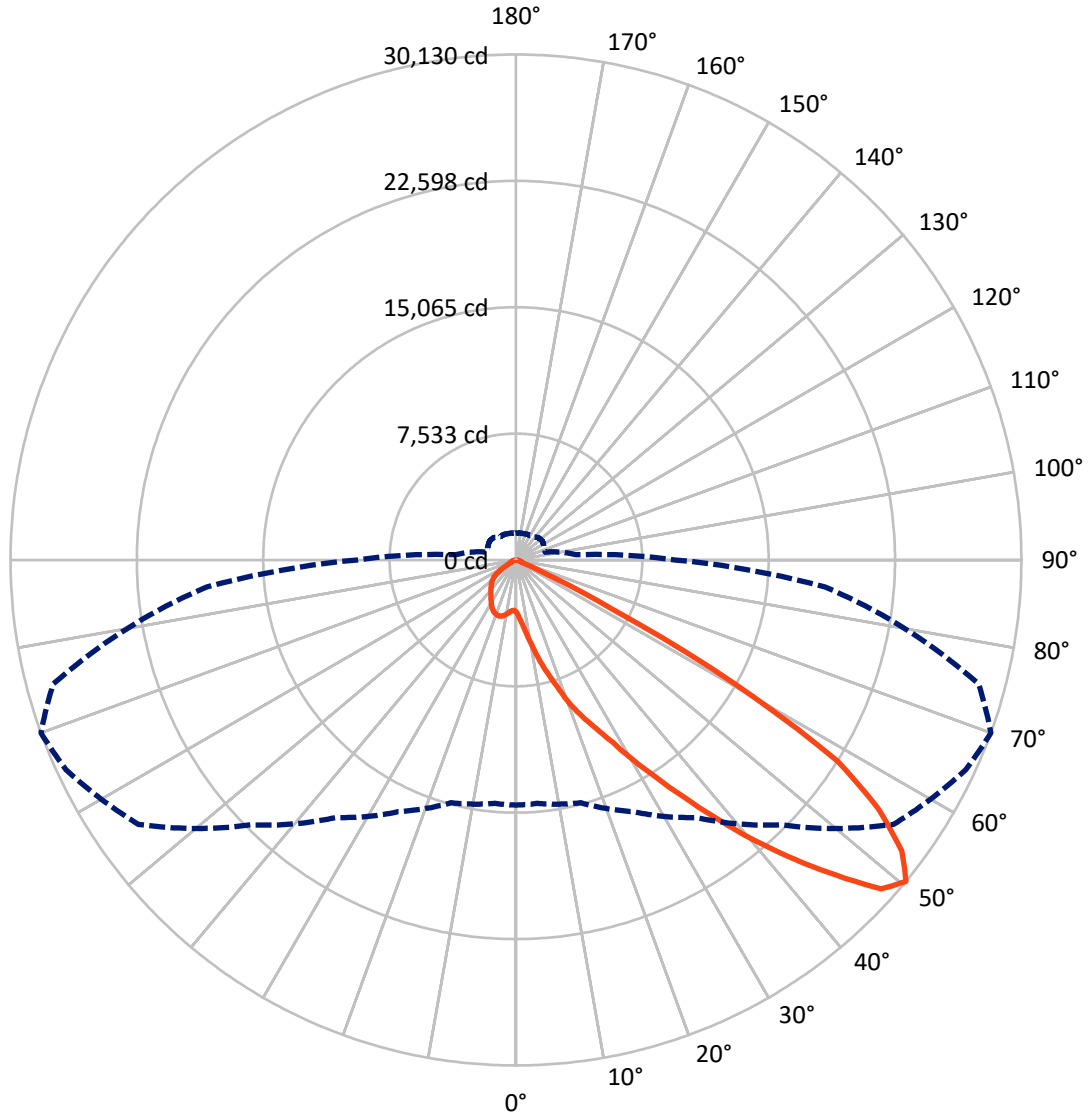
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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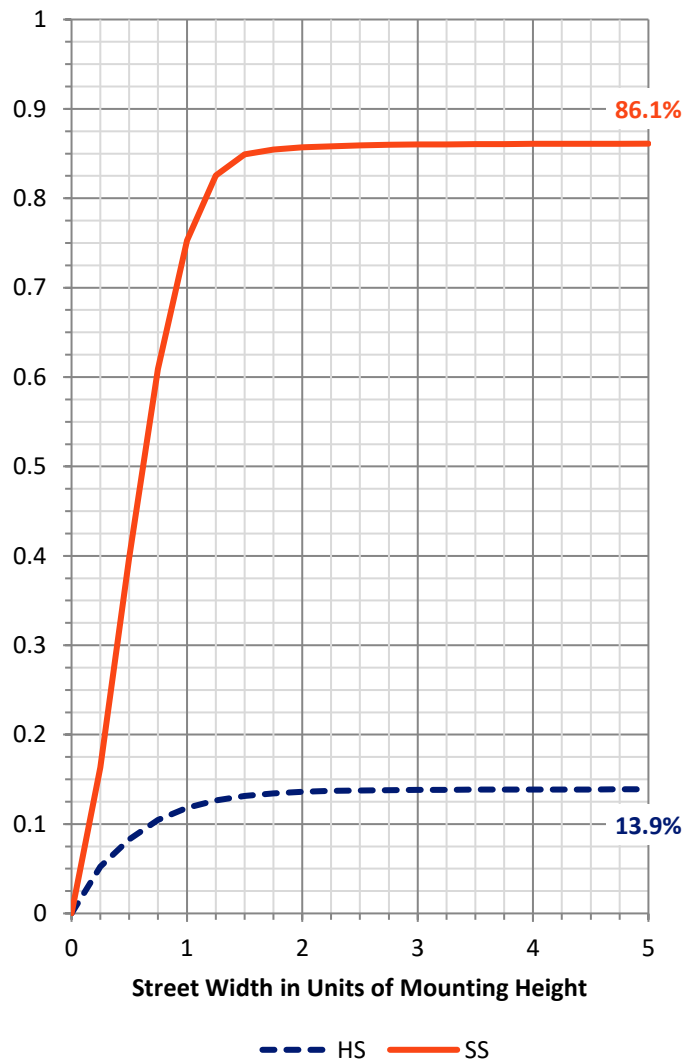
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4162.2	0.0	4162.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25640.8	0.0	25640.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	29803.0	0.0	29803.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.4	1.3
10°-20°	1736.4	5.8
20°-30°	3642.7	12.2
30°-40°	6278.8	21.1
40°-50°	9176.4	30.8
50°-60°	7146.9	24.0
60°-70°	1210.9	4.1
70°-80°	166.4	0.6
80°-90°	43.1	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°	29803.0	100.0
0°-180°	29803.0	100.0



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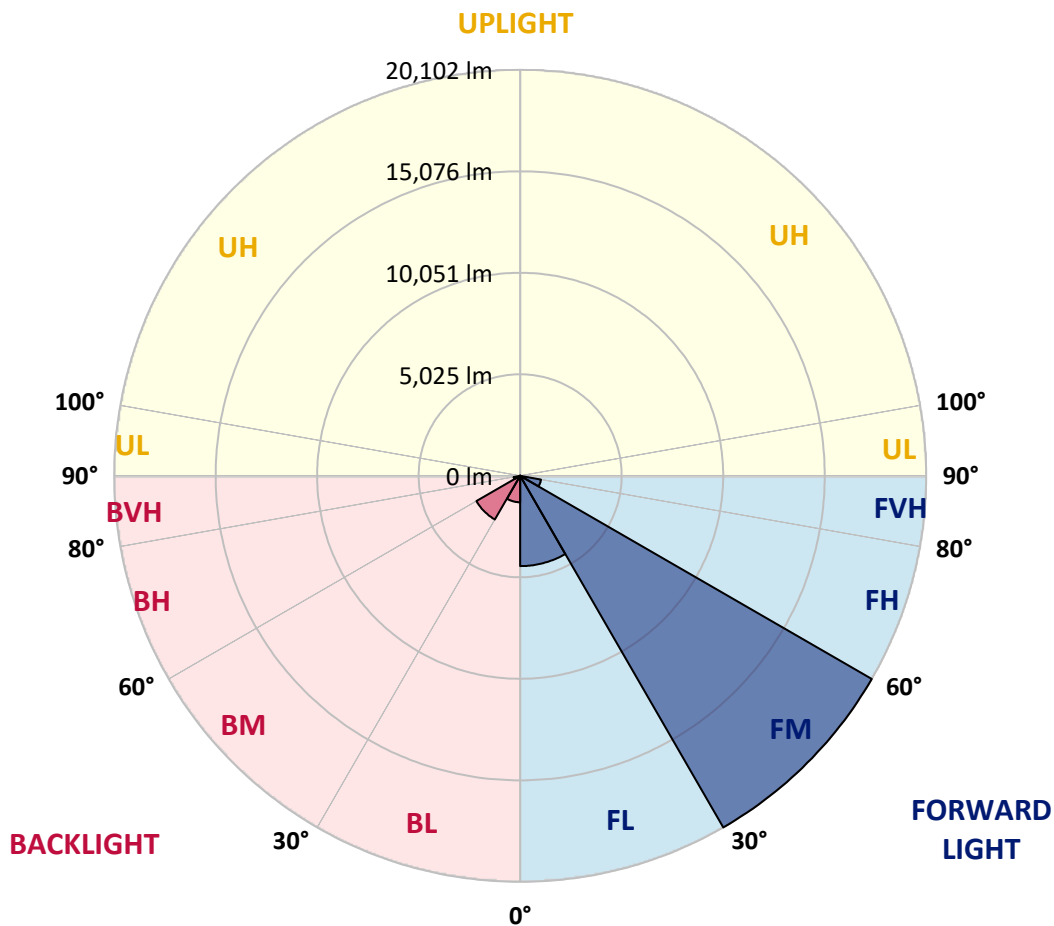
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4470.8	15.0			
FM (30°-60°)	20101.6	67.4			
FH (60°-80°)	1048.5	3.5			G1/1800
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	1309.7	4.4	B3/2500		
BM (30°-60°)	2500.5	8.4	B3/5000		
BH (60°-80°)	328.8	1.1	B1/500		G1/500
BVH (80°-90°)	23.2	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°	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0
2.5°	4042.5	4013.1	3949.4	3831.8	3782.8	3665.2	3596.6	3464.3	3381.0	3287.9	3185.0
5°	5693.8	5541.9	5448.8	5316.5	4929.4	4689.3	4292.4	3954.3	3797.5	3626.0	3390.8
7.5°	7399.0	7301.0	7173.6	6889.4	6624.8	6125.0	5443.9	4699.1	4380.6	4086.6	3621.1
10°	8810.2	8535.8	8521.1	8310.4	8021.3	7423.5	6605.2	5679.1	5110.7	4679.5	3949.4
12.5°	9795.1	9545.2	9657.9	9633.4	9363.9	8815.1	7869.4	6644.4	6051.5	5380.2	4287.5
15°	10691.8	10588.9	10554.6	10525.2	10417.4	10010.7	9163.0	7820.4	6962.9	6154.4	4669.7
17.5°	11568.9	11304.3	11431.7	11456.2	11446.4	11078.9	10285.1	8937.6	7928.2	6972.7	5071.5
20°	12348.0	12372.5	12201.0	12166.7	12137.3	12122.6	11348.4	10045.0	9114.0	7830.2	5595.8
22.5°	13347.6	13176.1	13328.0	13230.0	13038.9	12921.3	12328.4	11025.0	10143.0	8864.1	6129.9
25°	14528.5	14665.7	14308.0	14268.8	14058.1	13651.4	13117.3	12122.6	11132.8	9824.5	6708.1
27.5°	15983.8	15743.7	15650.6	15435.0	15052.8	14881.3	14254.1	13254.5	12328.4	10833.9	7266.7
30°	17233.3	17169.6	16704.1	16449.3	16116.1	16111.2	15234.1	14788.2	13886.6	12416.6	8036.0
32.5°	18252.5	17973.2	17801.7	17625.3	17355.8	17429.3	16689.4	16454.2	15547.7	13886.6	8942.5
35°	18933.6	18732.7	18629.8	18360.3	18281.9	18610.2	18301.5	18203.5	17458.7	15954.4	10005.8
37.5°	19149.2	19212.9	19193.3	18855.2	19021.8	19908.7	20305.6	20050.8	19658.8	18134.9	11157.3
40°	19340.3	19384.4	19286.4	19683.3	20158.6	21168.0	22603.7	22182.3	22035.3	20344.8	12759.6
42.5°	19448.1	19413.8	19413.8	20099.8	20820.1	22848.7	24823.4	24544.1	24431.4	22696.8	14611.8
45°	18982.6	18649.4	19007.1	19938.1	21388.5	23676.8	26597.2	26984.3	26822.6	25494.7	16777.6
47.5°	17243.1	17448.9	17649.8	18894.4	20697.6	23422.0	27685.0	29003.1	29302.0	27846.7	18198.6
50°	14611.8	14567.7	14984.2	16552.2	18742.5	22324.4	27474.3	29586.2	30130.1	28552.3	18497.5
52.5°	10628.1	10951.5	11402.3	12960.5	15557.5	19482.4	24754.8	28081.9	28807.1	27685.0	18301.5
55°	6188.7	5831.0	6845.3	8163.4	10613.4	14695.1	20927.9	24892.0	26234.6	26107.2	17311.7
57.5°	2479.4	2401.0	2748.9	3704.4	5537.0	9109.1	15219.4	20452.6	22603.7	23912.0	15214.5
60°	1087.8	1063.3	1249.5	1509.2	2263.8	4199.3	8325.1	12720.4	14964.6	16709.0	10471.3
62.5°	784.0	774.2	867.3	960.4	1195.6	1827.7	3498.6	5125.4	6389.6	7717.5	4689.3
65°	632.1	656.6	720.3	769.3	882.0	1014.3	1234.8	1425.9	1749.3	1813.0	1033.9
67.5°	514.5	534.1	592.9	646.8	666.4	548.8	568.4	499.8	499.8	445.9	357.7
70°	377.3	382.2	450.8	514.5	411.6	220.5	387.1	387.1	347.9	333.2	303.8
72.5°	279.3	284.2	338.1	318.5	161.7	137.2	284.2	313.6	284.2	269.5	245.0
75°	205.8	210.7	176.4	73.5	68.6	88.2	166.6	215.6	205.8	200.9	186.2
77.5°	39.2	29.4	24.5	34.3	49.0	73.5	107.8	132.3	137.2	147.0	137.2
80°	4.9	4.9	14.7	29.4	53.9	78.4	112.7	127.4	132.3	137.2	127.4
82.5°	0.0	4.9	14.7	29.4	53.9	73.5	98.0	112.7	122.5	127.4	122.5
85°	0.0	4.9	9.8	24.5	44.1	53.9	49.0	34.3	29.4	34.3	24.5
87.5°	0.0	0.0	4.9	4.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8
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°	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0
2.5°	3126.2	3106.6	3038.0	2964.5	2900.8	2930.2	2900.8	2876.3	2886.1	2876.3	2866.5
5°	3297.7	3209.5	3062.5	2998.8	2944.9	2940.0	2925.3	2920.4	2925.3	2925.3	2881.2
7.5°	3459.4	3317.3	3160.5	3091.9	3028.2	3033.1	2998.8	2998.8	2993.9	2969.4	2959.6
10°	3704.4	3513.3	3312.4	3189.9	3111.5	3096.8	3062.5	3028.2	3028.2	3028.2	2979.2
12.5°	3973.9	3733.8	3459.4	3317.3	3224.2	3150.7	3096.8	3087.0	3033.1	3023.3	2998.8
15°	4209.1	3905.3	3557.4	3361.4	3243.8	3145.8	3062.5	3008.6	2984.1	2969.4	2949.8
17.5°	4439.4	4052.3	3611.3	3361.4	3234.0	3121.3	3033.1	2984.1	2925.3	2935.1	2895.9
20°	4748.1	4209.1	3626.0	3297.7	3140.9	3033.1	2915.5	2891.0	2856.7	2827.3	2837.1
22.5°	5047.0	4321.8	3581.9	3219.3	2993.9	2866.5	2807.7	2778.3	2763.6	2739.1	2704.8
25°	5316.5	4444.3	3513.3	3077.2	2837.1	2744.0	2690.1	2685.2	2650.9	2650.9	2587.2
27.5°	5590.9	4488.4	3395.7	2910.6	2699.9	2646.0	2621.5	2611.7	2597.0	2562.7	2518.6
30°	5904.5	4503.1	3224.2	2739.1	2577.4	2518.6	2552.9	2577.4	2513.7	2450.0	2469.6
32.5°	6164.2	4468.8	3018.4	2577.4	2489.2	2459.8	2528.4	2552.9	2479.4	2410.8	2376.5
35°	6477.8	4385.5	2817.5	2450.0	2401.0	2459.8	2518.6	2518.6	2371.6	2288.3	2268.7
37.5°	6953.1	4292.4	2631.3	2342.2	2307.9	2430.4	2508.8	2454.9	2224.6	2121.7	2097.2
40°	7462.7	4233.6	2450.0	2234.4	2258.9	2381.4	2425.5	2258.9	2023.7	1960.0	1940.4
42.5°	8202.6	4116.0	2288.3	2141.3	2214.8	2312.8	2312.8	2013.9	1925.7	1891.4	1886.5
45°	9123.8	4032.7	2146.2	2062.9	2151.1	2175.6	2097.2	1886.5	1822.8	1813.0	1817.9
47.5°	9574.6	3871.0	1999.2	1969.8	2033.5	2038.4	1832.6	1783.6	1729.7	1715.0	1705.2
50°	9506.0	3581.9	1808.1	1847.3	1935.5	1886.5	1670.9	1680.7	1631.7	1626.8	1602.3
52.5°	9025.8	3126.2	1617.0	1710.1	1808.1	1666.0	1538.6	1528.8	1528.8	1465.1	1440.6
55°	8001.7	2518.6	1386.7	1504.3	1621.9	1401.4	1367.1	1357.3	1332.8	1274.0	1259.3
57.5°	6335.7	1847.3	1043.7	1171.1	1376.9	1190.7	1185.8	1141.7	1078.0	1033.9	1033.9
60°	3768.1	1063.3	656.6	715.4	911.4	965.3	1073.1	1053.5	945.7	877.1	857.5
62.5°	1719.9	548.8	416.5	426.3	490.0	627.2	842.8	975.1	823.2	705.6	695.8
65°	578.2	406.7	343.0	328.3	338.1	377.3	504.7	690.9	656.6	543.9	524.3
67.5°	352.8	362.6	323.4	298.9	298.9	294.0	289.1	313.6	387.1	377.3	382.2
70°	303.8	333.2	298.9	269.5	259.7	245.0	205.8	171.5	147.0	171.5	181.3
72.5°	245.0	264.6	254.8	230.3	205.8	186.2	147.0	112.7	83.3	73.5	73.5
75°	181.3	196.0	205.8	176.4	156.8	132.3	107.8	73.5	44.1	29.4	29.4
77.5°	132.3	147.0	151.9	137.2	117.6	93.1	68.6	49.0	24.5	9.8	9.8
80°	112.7	132.3	147.0	137.2	122.5	88.2	63.7	34.3	19.6	4.9	4.9
82.5°	107.8	132.3	147.0	132.3	117.6	83.3	63.7	39.2	14.7	4.9	4.9
85°	24.5	34.3	44.1	53.9	63.7	63.7	49.0	29.4	14.7	4.9	4.9
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	4.9	4.9	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)