

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: P533699

Luminaire Tested: **GALN-SA9A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17978 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

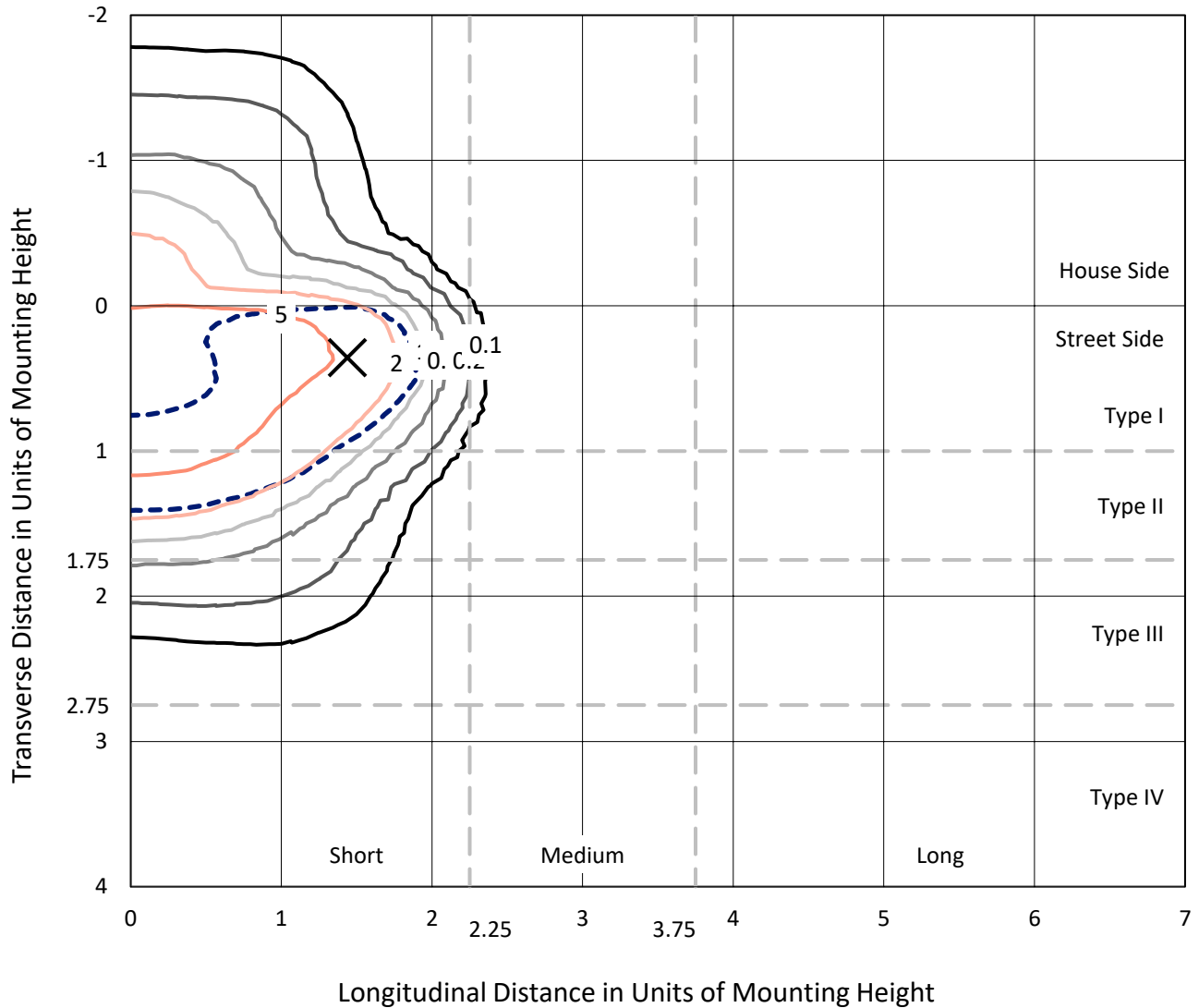
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

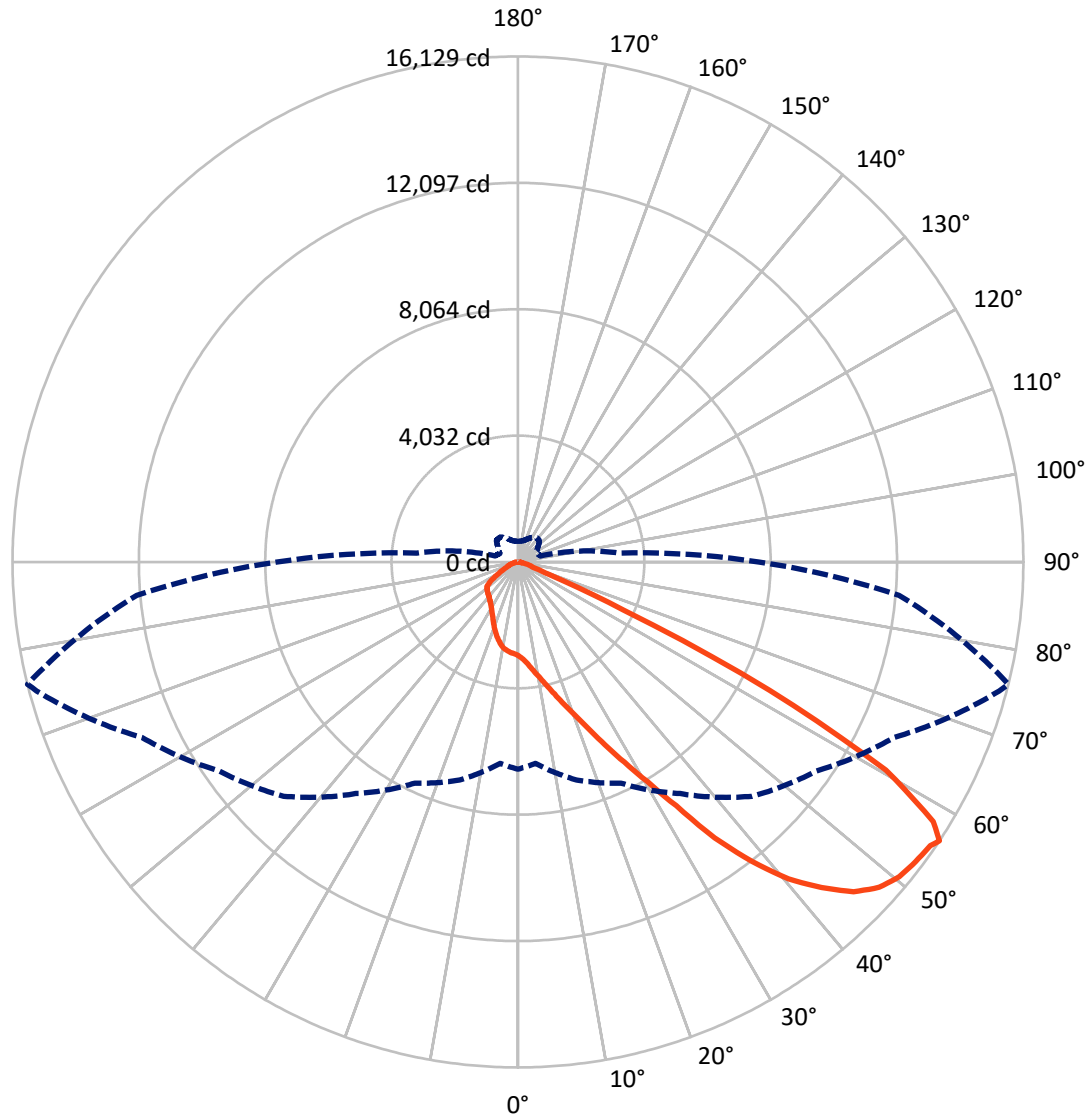
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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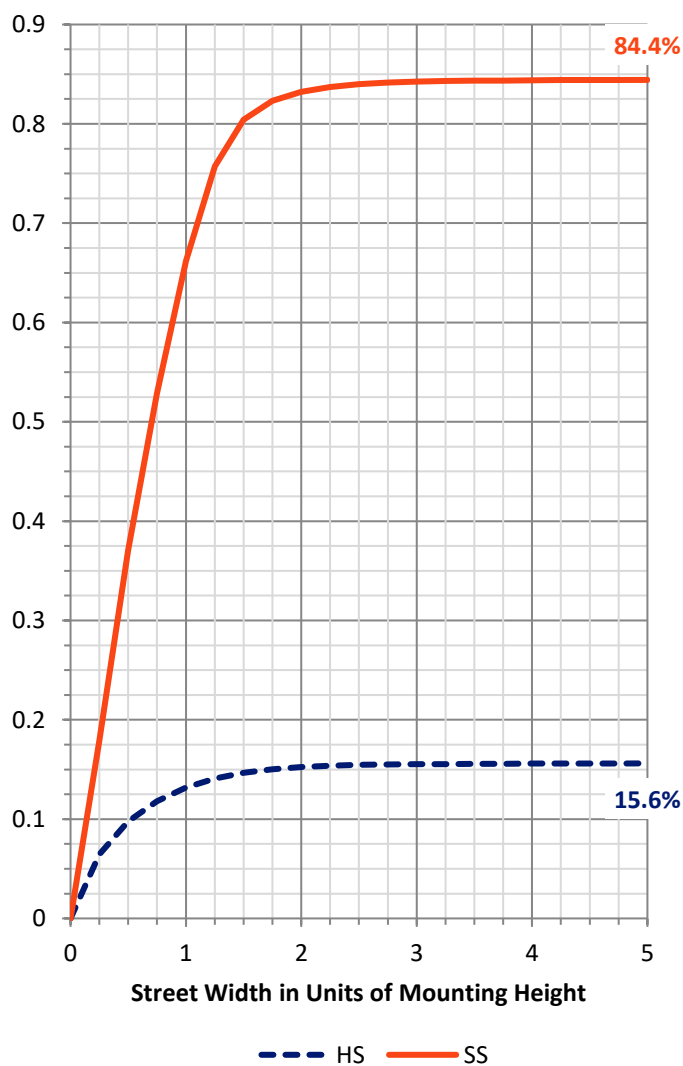
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2824.3	0.0	2824.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15153.7	0.0	15153.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	17978.0	0.0	17978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.7
10°-20°	968.4	5.4
20°-30°	1756.0	9.8
30°-40°	3028.4	16.8
40°-50°	4919.7	27.4
50°-60°	5185.6	28.8
60°-70°	1584.4	8.8
70°-80°	203.1	1.1
80°-90°	30.9	0.2
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°	17978.0	100.0
0°-180°	17978.0	100.0

Coefficient of Utilization

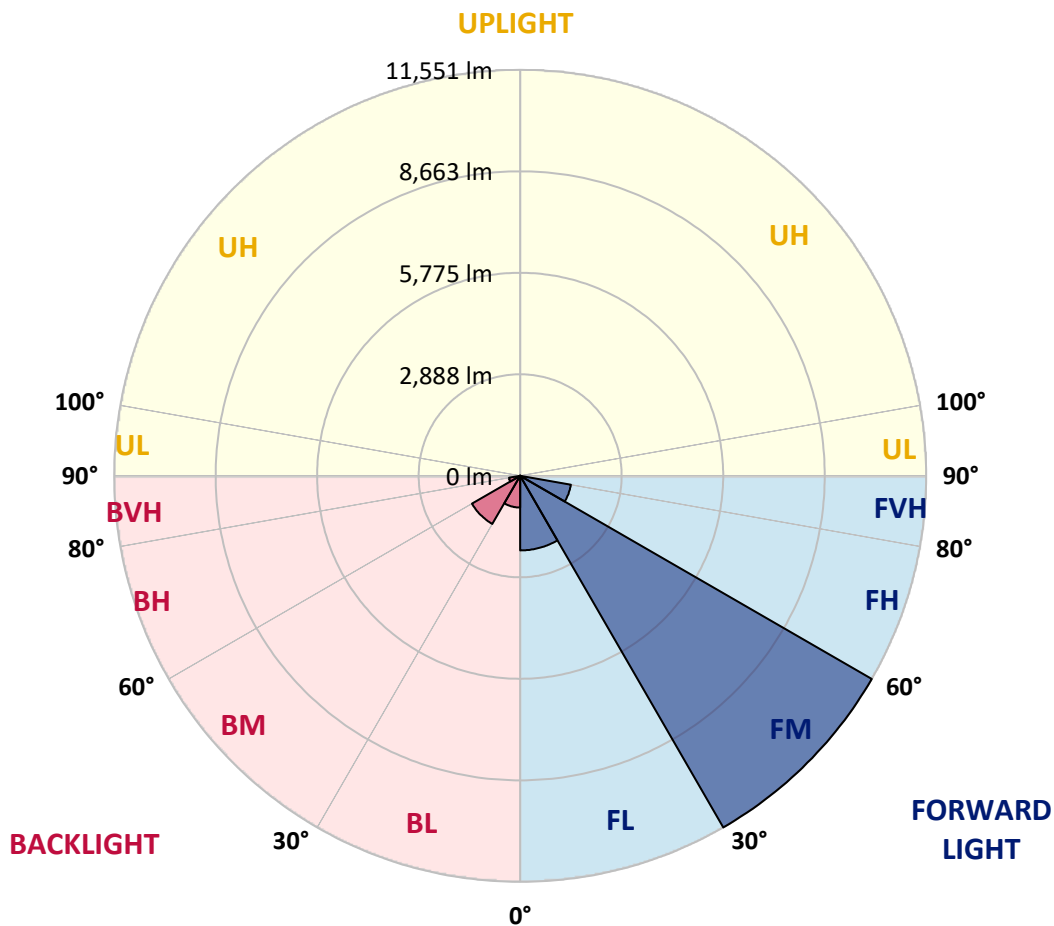


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.5	11.8			
FM (30°-60°)	11550.8	64.2			
FH (60°-80°)	1465.3	8.2			G1/1800
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	903.5	5.0	B2/1000		
BM (30°-60°)	1582.8	8.8	B2/2500		
BH (60°-80°)	322.2	1.8	B1/500		G1/500
BVH (80°-90°)	15.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5
2.5°	3446.5	3366.9	3370.3	3363.6	3353.7	3317.2	3207.9	3191.3	3118.4	3098.5	3032.2
5°	3860.7	3791.1	3830.9	3771.2	3714.9	3681.8	3502.8	3420.0	3304.0	3260.9	3168.1
7.5°	4119.2	4086.1	4072.8	4076.1	4023.1	3940.2	3860.7	3678.4	3522.7	3489.6	3294.0
10°	4245.1	4225.2	4245.1	4235.2	4258.4	4268.3	4129.1	4019.8	3791.1	3734.8	3429.9
12.5°	4275.0	4314.7	4331.3	4374.4	4430.7	4526.8	4516.9	4367.7	4062.9	4026.4	3638.7
15°	4347.9	4381.0	4364.4	4434.0	4540.1	4702.4	4788.6	4765.4	4437.3	4371.1	3880.6
17.5°	4414.1	4354.5	4410.8	4550.0	4656.1	4904.6	5113.4	5209.5	4844.9	4768.7	4102.6
20°	4503.6	4487.0	4477.1	4546.7	4735.6	5067.0	5481.2	5656.9	5302.3	5222.7	4420.8
22.5°	4775.4	4778.7	4772.0	4669.3	4805.2	5179.6	5802.7	6236.8	5849.1	5782.8	4782.0
25°	5133.3	5090.2	5057.0	4974.2	4957.6	5282.4	6127.4	6946.0	6505.2	6458.8	5173.0
27.5°	5511.0	5511.0	5411.6	5335.4	5229.4	5537.6	6425.7	7635.3	7297.2	7234.3	5514.4
30°	5922.0	5945.2	5931.9	5769.5	5703.2	5815.9	6730.6	8516.8	8205.3	8125.7	6077.7
32.5°	6528.4	6478.7	6535.0	6399.2	6203.6	6303.1	7211.1	9305.5	9385.0	9272.3	6816.7
35°	7330.4	7300.6	7264.1	7042.1	6810.1	6889.6	7890.4	10276.4	10866.3	10810.0	7562.4
37.5°	8049.5	8032.9	8003.1	7850.7	7582.2	7678.3	8662.6	11287.2	12311.2	12125.6	8616.2
40°	8805.1	8894.5	8798.4	8662.6	8417.3	8629.4	9570.6	11887.0	13527.4	13302.1	9421.5
42.5°	9829.1	9759.5	9802.6	9554.0	9421.5	9653.4	10481.9	12486.8	14471.9	14203.4	10276.4
45°	10919.3	10922.7	10806.7	10727.1	10382.5	10634.4	11042.0	12818.2	15224.1	15015.3	10922.7
47.5°	11618.6	11615.3	11741.2	11867.1	11512.5	11264.0	11423.1	13133.0	15611.9	15515.7	11158.0
50°	11509.2	11542.4	11704.7	12175.3	12360.9	12026.2	11781.0	13040.3	15787.5	15777.5	11360.1
52.5°	10011.3	10120.7	10392.4	11071.8	12006.3	12420.6	12155.4	13212.6	15873.7	15890.2	11661.7
55°	7622.0	7681.7	8198.6	9023.8	10057.7	11476.1	12006.3	13348.4	15939.9	15969.8	12026.2
56°	6611.3	6452.2	7197.8	7784.4	9020.5	10571.4	11628.5	13242.4	15900.2	16128.8	12208.5
57.5°	4990.8	4884.7	5487.8	6220.2	7409.9	9047.0	10455.4	12742.0	15631.7	15628.4	11946.7
60°	3035.5	2929.5	3393.4	3824.3	4490.4	5570.7	7065.3	10147.2	13215.9	13494.3	9673.3
62.5°	1806.1	1872.4	2329.7	2591.5	2806.9	2919.6	3655.2	6031.3	8818.3	9017.2	6001.5
65°	1203.0	1226.1	1570.8	2001.6	2097.7	1670.2	1487.9	2442.4	3824.3	3701.6	2475.5
67.5°	742.3	795.3	1053.8	1504.5	1666.9	1219.5	705.9	911.3	1053.8	1053.8	715.8
70°	450.7	477.2	702.5	1024.0	1143.3	785.4	513.7	513.7	507.0	497.1	427.5
72.5°	215.4	232.0	357.9	526.9	536.9	414.2	397.7	434.1	424.2	420.9	354.6
75°	92.8	99.4	125.9	165.7	188.9	175.6	241.9	311.5	321.4	311.5	255.2
77.5°	29.8	33.1	46.4	59.7	63.0	76.2	102.7	129.2	149.1	139.2	125.9
80°	3.3	6.6	13.3	29.8	46.4	59.7	76.2	86.2	96.1	96.1	89.5
82.5°	3.3	3.3	13.3	26.5	43.1	56.3	72.9	82.8	96.1	99.4	92.8
85°	0.0	3.3	9.9	23.2	36.5	36.5	33.1	33.1	23.2	23.2	23.2
87.5°	0.0	0.0	3.3	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6
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°	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5
2.5°	3019.0	3012.3	2922.9	2866.5	2836.7	2777.1	2740.6	2714.1	2694.2	2671.0	2674.3
5°	3058.7	3035.5	2886.4	2783.7	2661.1	2594.8	2538.5	2492.1	2462.2	2455.6	2442.4
7.5°	3171.4	3048.8	2823.5	2637.9	2482.1	2415.8	2366.1	2336.3	2349.6	2319.7	2342.9
10°	3257.6	3075.3	2747.2	2478.8	2323.1	2273.3	2246.8	2270.0	2303.2	2289.9	2273.3
12.5°	3363.6	3101.8	2624.6	2326.4	2180.6	2144.1	2190.5	2233.6	2299.9	2326.4	2293.2
15°	3482.9	3131.6	2468.9	2150.7	2057.9	2087.8	2167.3	2243.5	2309.8	2342.9	2362.8
17.5°	3628.7	3121.7	2316.4	2011.5	1942.0	2028.1	2124.2	2193.8	2293.2	2342.9	2329.7
20°	3764.6	3088.6	2147.4	1872.4	1875.7	1955.2	2034.7	2147.4	2200.4	2266.7	2243.5
22.5°	3893.8	3028.9	1971.8	1776.3	1776.3	1898.9	1938.6	2011.5	2057.9	2091.1	2087.8
25°	4076.1	2916.2	1826.0	1683.5	1723.2	1802.8	1835.9	1859.1	1839.2	1865.7	1869.0
27.5°	4205.4	2800.3	1706.7	1600.6	1673.5	1733.2	1723.2	1710.0	1663.6	1627.1	1650.3
30°	4344.5	2664.4	1603.9	1544.3	1584.1	1637.1	1597.3	1557.5	1484.6	1425.0	1428.3
32.5°	4543.4	2601.4	1514.5	1478.0	1531.0	1537.7	1494.6	1434.9	1362.0	1305.7	1302.4
35°	4914.5	2561.7	1438.2	1434.9	1444.9	1448.2	1405.1	1332.2	1302.4	1256.0	1272.5
37.5°	5285.7	2541.8	1385.2	1372.0	1368.6	1372.0	1322.3	1252.7	1309.0	1305.7	1312.3
40°	5759.6	2631.2	1309.0	1292.4	1295.7	1295.7	1232.8	1212.9	1312.3	1322.3	1325.6
42.5°	6240.1	2743.9	1259.3	1206.3	1219.5	1219.5	1186.4	1163.2	1232.8	1166.5	1156.6
45°	6657.7	2909.6	1206.3	1120.1	1153.2	1169.8	1159.9	1120.1	1077.0	964.3	964.3
47.5°	6793.5	3055.4	1143.3	1037.3	1063.8	1136.7	1106.8	1024.0	947.8	855.0	848.4
50°	7032.1	3214.5	1093.6	941.2	997.5	1087.0	1057.1	974.3	888.1	821.9	825.2
52.5°	7277.4	3396.8	1000.8	828.5	898.1	1047.2	1047.2	954.4	821.9	775.5	768.8
55°	7645.2	3390.1	835.1	679.4	802.0	987.5	1004.1	855.0	735.7	699.2	699.2
56°	7698.2	3237.7	752.3	636.3	758.9	971.0	974.3	828.5	702.5	662.8	662.8
57.5°	7300.6	2922.9	659.5	583.2	705.9	941.2	944.5	805.3	676.0	619.7	613.1
60°	5617.1	1978.4	550.1	520.3	639.6	848.4	864.9	732.4	593.2	550.1	546.8
62.5°	3171.4	1096.9	483.8	470.6	550.1	722.4	772.1	639.6	503.7	480.5	487.1
65°	1448.2	603.1	407.6	381.1	444.1	556.7	623.0	526.9	414.2	387.7	387.7
67.5°	530.2	410.9	348.0	301.6	311.5	361.2	404.3	341.3	275.1	235.3	245.2
70°	377.8	344.6	304.9	261.8	241.9	235.3	232.0	192.2	135.9	106.0	112.7
72.5°	304.9	285.0	255.2	222.0	188.9	159.1	135.9	99.4	63.0	43.1	39.8
75°	218.7	208.8	185.6	159.1	132.6	112.7	92.8	63.0	33.1	16.6	16.6
77.5°	112.7	112.7	109.4	99.4	82.8	66.3	53.0	36.5	19.9	6.6	6.6
80°	86.2	92.8	96.1	86.2	76.2	59.7	43.1	26.5	13.3	3.3	3.3
82.5°	82.8	96.1	102.7	89.5	76.2	56.3	43.1	26.5	13.3	3.3	3.3
85°	19.9	19.9	29.8	33.1	43.1	46.4	36.5	23.2	9.9	3.3	3.3
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	3.3	3.3	3.3	3.3	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)