

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: P529866

Luminaire Tested: **GALN-SA5A-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20665 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

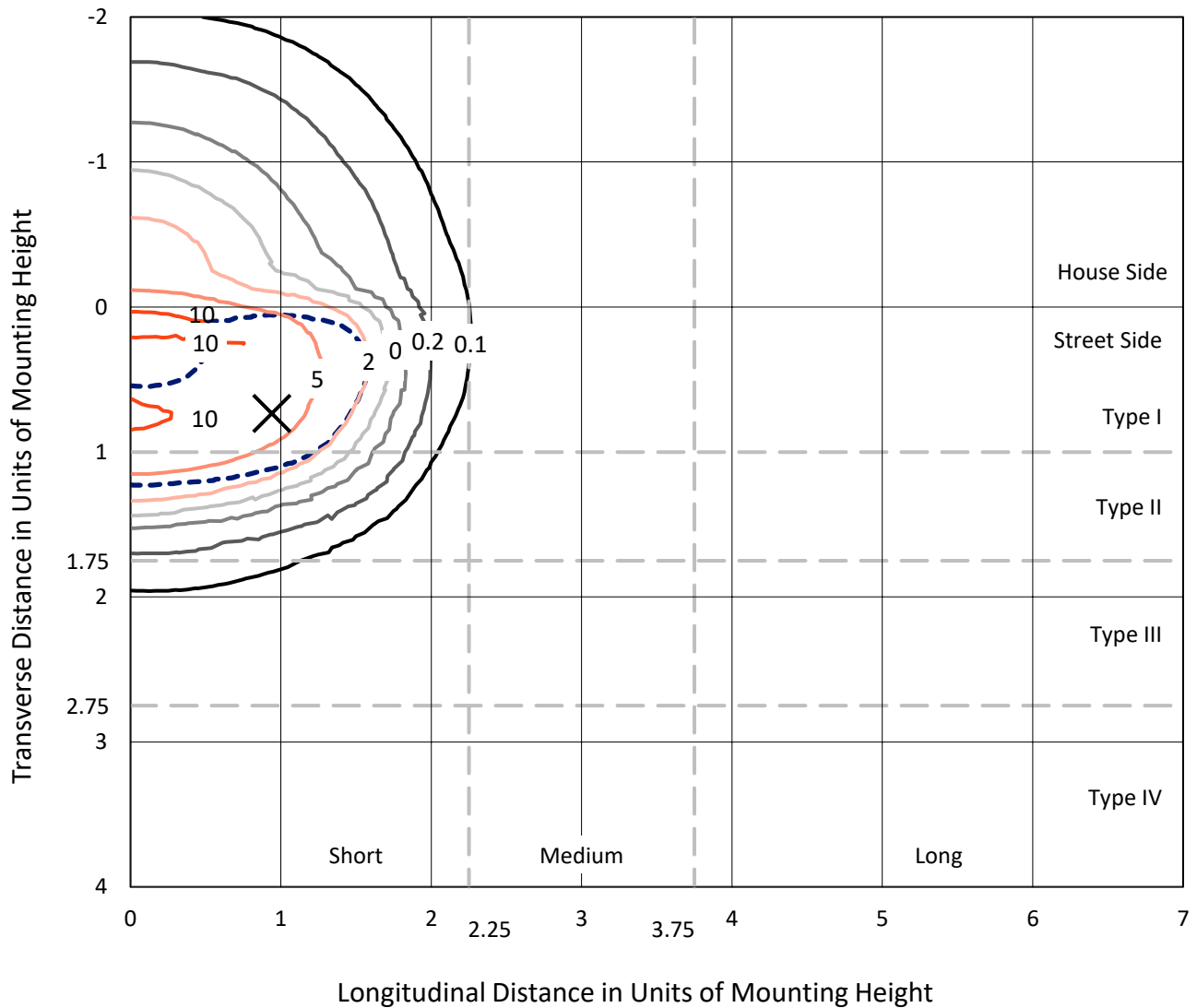
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

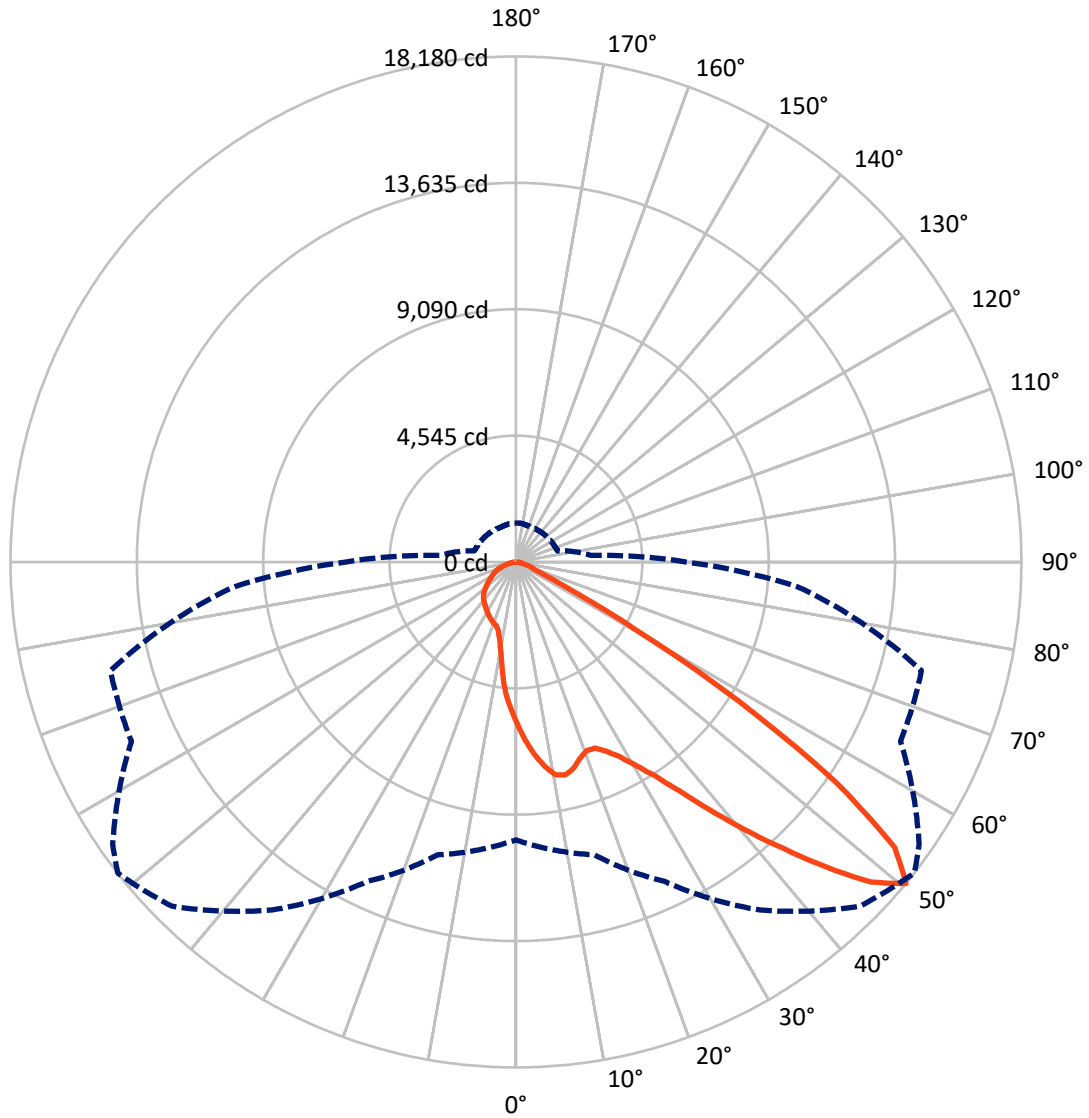
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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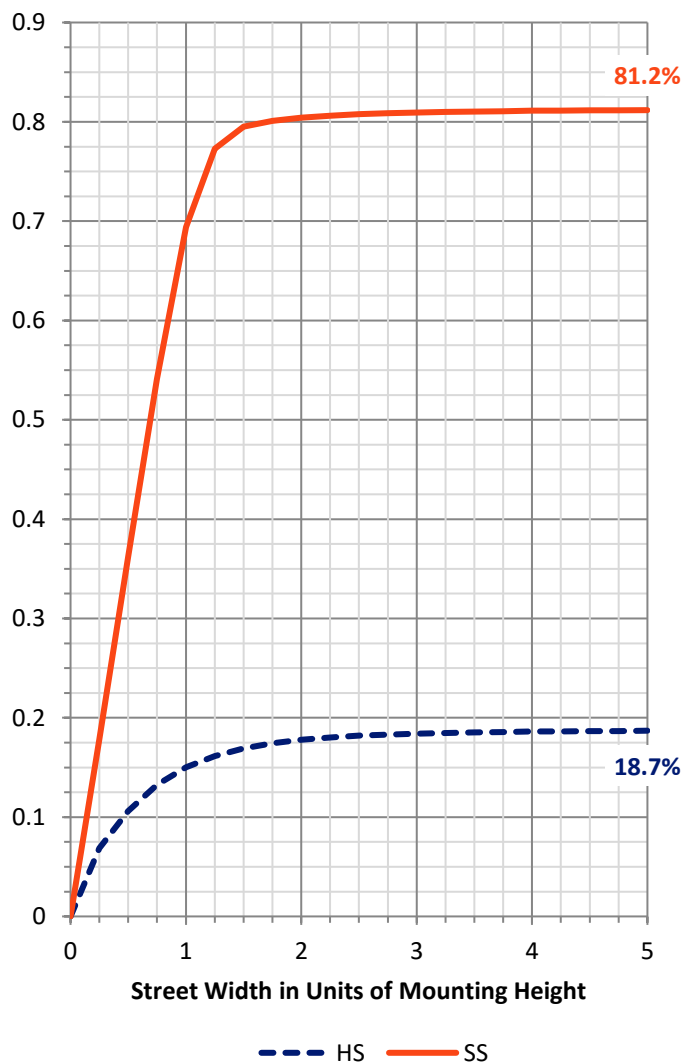
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3884.5	0.0	3884.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16780.5	0.0	16780.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20665.0	0.0	20665.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.9	2.6
10°-20°	1439.0	7.0
20°-30°	2424.0	11.7
30°-40°	4067.6	19.7
40°-50°	6222.5	30.1
50°-60°	4536.7	22.0
60°-70°	1009.6	4.9
70°-80°	364.2	1.8
80°-90°	64.5	0.3
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°	20665.0	100.0
0°-180°	20665.0	100.0

**Coefficient of Utilization**



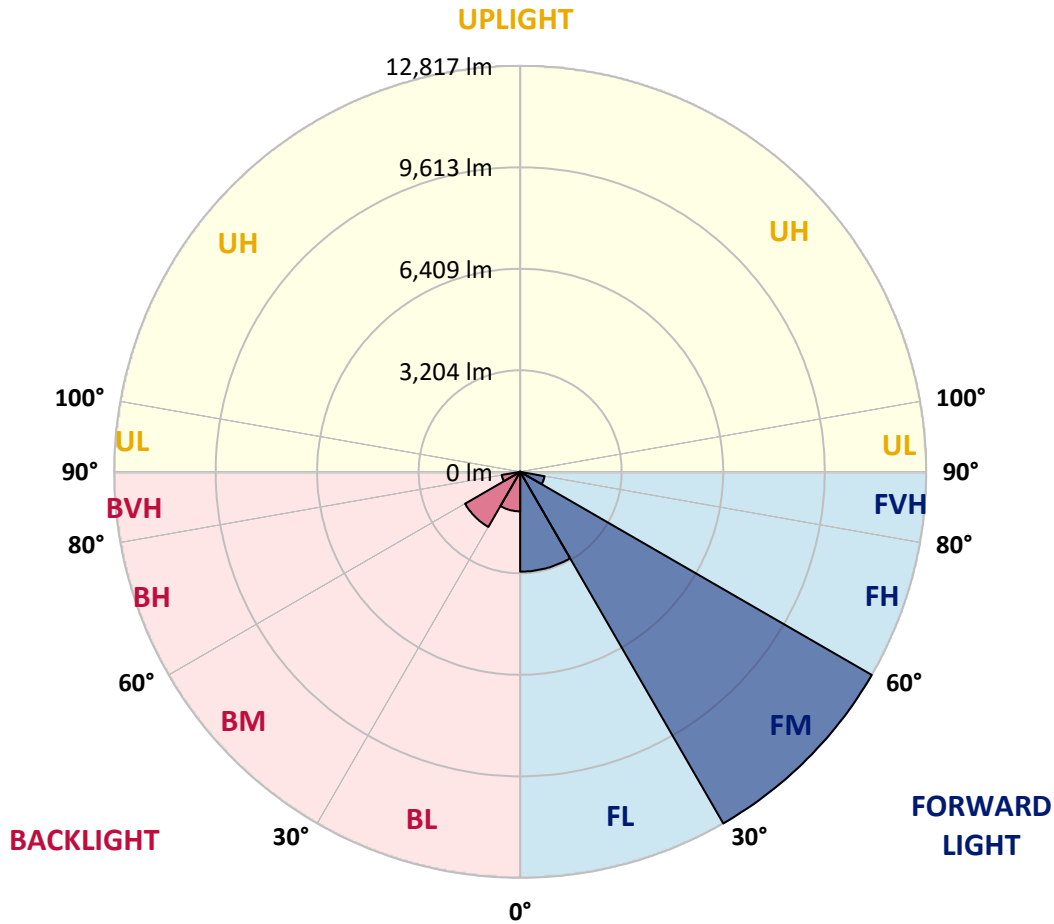
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3152.1	15.3			
FM (30°-60°)	12817.5	62.0			
FH (60°-80°)	782.0	3.8			G1/1800
FVH (80°-90°)	28.9	0.1			G1/100
BL (0°-30°)	1247.8	6.0	B3/2500		
BM (30°-60°)	2009.3	9.7	B2/2500		
BH (60°-80°)	591.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	35.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1
2.5°	6858.7	6726.7	6741.6	6647.0	6544.9	6515.0	6410.4	6310.8	6236.0	6076.7	5929.7
5°	7496.2	7456.4	7396.6	7321.9	7244.7	7055.4	6948.3	6823.8	6549.8	6303.3	6059.2
7.5°	7588.3	7580.9	7613.3	7613.3	7640.6	7568.4	7416.5	7329.3	7038.0	6637.0	6183.7
10°	6940.8	6963.2	7120.1	7324.4	7608.3	7805.0	7780.1	7757.7	7438.9	6891.0	6330.7
12.5°	6425.3	6375.5	6467.7	6642.0	7067.8	7543.5	7864.8	7867.3	7785.1	7297.0	6437.8
15°	6133.9	6168.8	6193.7	6275.9	6597.2	7147.5	7712.9	7879.7	8240.8	7583.4	6607.1
17.5°	6320.7	6203.7	6198.7	6218.6	6383.0	6796.4	7431.4	7717.8	8489.9	7952.0	6816.3
20°	6564.8	6562.3	6492.6	6467.7	6465.2	6833.7	7247.2	7635.7	8621.9	8430.1	7028.0
22.5°	6993.1	6993.1	6878.6	6823.8	6706.7	7008.1	7272.1	7536.0	8841.0	8758.9	7130.1
25°	7710.4	7593.3	7396.6	7262.1	7194.9	7301.9	7536.0	7772.6	9032.8	9107.5	7341.8
27.5°	8372.8	8188.5	8091.4	7859.8	7770.1	7707.9	7922.1	8161.1	9256.9	9650.4	7456.4
30°	9124.9	9092.6	8918.2	8619.4	8397.7	8283.2	8479.9	8716.5	9667.9	10205.8	7720.3
32.5°	10469.8	10175.9	9939.3	9573.2	9212.1	8968.0	9162.3	9319.2	10350.2	10786.1	8009.2
35°	11921.7	11827.1	11418.6	10758.7	10205.8	9986.6	10101.2	10218.2	11144.7	11672.7	8494.9
37.5°	13348.7	13219.2	12883.0	12327.6	11655.2	11209.4	11291.6	11428.6	12036.3	12868.1	9087.6
40°	14374.8	14215.4	14046.0	13963.9	13296.4	12686.3	12638.9	12673.8	13241.6	13988.8	9745.1
42.5°	14449.5	14646.2	14698.5	15029.8	14872.9	14372.3	14080.9	14088.4	14392.2	15097.0	10410.0
45°	14292.6	14110.8	14496.8	15400.8	15918.8	16152.9	15662.3	15600.1	15104.5	15739.5	10741.2
47.5°	12646.4	12696.2	13348.7	14778.2	16275.0	17321.0	17206.4	16999.7	15485.5	15717.1	10688.9
50°	9996.6	10297.9	10903.1	12683.8	15278.8	17505.2	18180.2	17702.0	15258.9	15099.5	10156.0
52.5°	6656.9	6781.4	7179.9	9478.6	12285.3	15647.4	17059.5	17169.0	15049.7	14290.1	9481.1
55°	2963.6	2953.7	3514.0	4951.0	7707.9	11906.8	13938.9	14606.4	14245.3	13465.8	8823.6
57.5°	1255.2	1297.5	1526.6	2139.3	3790.4	7184.9	9443.7	10029.0	10955.4	11057.5	6769.0
60°	849.2	854.2	916.5	1070.9	1586.4	3374.5	4953.5	5655.8	6318.2	6273.4	3591.2
62.5°	667.4	684.9	732.2	794.4	941.4	1531.6	2216.5	2607.5	2649.8	2228.9	1362.3
65°	570.3	572.8	620.1	672.4	737.2	891.6	1068.4	1088.3	1100.8	1060.9	1001.2
67.5°	470.7	475.7	513.0	572.8	632.6	682.4	732.2	757.1	814.4	926.4	911.5
70°	373.6	381.0	413.4	463.2	518.0	547.9	610.2	632.6	684.9	772.0	806.9
72.5°	283.9	286.4	313.8	348.7	398.5	428.4	480.7	505.6	540.4	615.1	647.5
75°	204.2	211.7	231.6	249.0	256.5	276.4	326.2	353.6	403.5	435.8	438.3
77.5°	107.1	112.1	117.1	117.1	142.0	179.3	211.7	226.6	261.5	286.4	273.9
80°	42.3	44.8	57.3	77.2	99.6	129.5	151.9	159.4	189.3	204.2	211.7
82.5°	24.9	27.4	37.4	54.8	72.2	92.1	109.6	117.1	137.0	154.4	159.4
85°	12.5	14.9	22.4	34.9	47.3	57.3	54.8	52.3	52.3	49.8	52.3
87.5°	5.0	5.0	7.5	7.5	7.5	10.0	12.5	12.5	12.5	14.9	14.9
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°	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1	5825.1
2.5°	5832.6	5733.0	5640.8	5471.5	5287.2	5234.9	5020.7	4943.5	4888.7	4824.0	4804.0
5°	5862.5	5730.5	5434.1	5092.9	4821.5	4472.8	4243.7	3997.1	3817.8	3773.0	3760.6
7.5°	5924.7	5698.1	5187.6	4672.1	4116.7	3643.5	3282.4	3088.1	2916.3	2906.3	2888.9
10°	5994.5	5601.0	4918.6	4109.2	3399.4	2961.1	2744.5	2659.8	2617.4	2607.5	2602.5
12.5°	6051.8	5581.1	4617.3	3561.3	2891.4	2627.4	2562.7	2555.2	2572.6	2577.6	2587.6
15°	6076.7	5501.4	4253.7	3070.7	2575.1	2478.0	2505.4	2535.3	2547.7	2580.1	2555.2
17.5°	6124.0	5399.3	3805.4	2682.2	2398.3	2415.7	2463.0	2497.9	2517.8	2540.2	2507.9
20°	6148.9	5307.1	3384.5	2450.6	2336.0	2368.4	2433.2	2460.5	2485.5	2495.4	2458.1
22.5°	6126.5	5117.8	3013.4	2263.8	2276.3	2318.6	2375.9	2405.8	2390.8	2351.0	2328.6
25°	6066.7	4851.4	2627.4	2144.3	2191.6	2266.3	2311.1	2288.7	2261.3	2238.9	2231.4
27.5°	6064.2	4525.1	2348.5	2034.7	2119.4	2221.5	2206.5	2186.6	2199.1	2181.6	2161.7
30°	6076.7	4208.8	2119.4	1972.4	2067.1	2116.9	2134.3	2114.4	2129.3	2096.9	2106.9
32.5°	6011.9	3900.0	1969.9	1900.2	2004.8	2002.3	2059.6	2074.5	2039.7	1972.4	1982.4
35°	6039.3	3651.0	1842.9	1867.8	1935.1	1935.1	1979.9	1962.5	1870.3	1830.5	1840.4
37.5°	6228.6	3406.9	1780.7	1823.0	1867.8	1887.7	1872.8	1798.1	1775.7	1775.7	1780.7
40°	6407.9	3197.7	1743.3	1813.0	1805.6	1818.0	1708.4	1715.9	1715.9	1718.4	1705.9
42.5°	6567.3	3055.8	1713.4	1753.3	1765.7	1701.0	1633.7	1626.3	1643.7	1641.2	1631.2
45°	6624.5	2938.7	1671.1	1686.0	1696.0	1588.9	1556.5	1541.6	1561.5	1569.0	1578.9
47.5°	6405.4	2841.6	1623.8	1593.9	1574.0	1504.2	1461.9	1434.5	1459.4	1501.7	1511.7
50°	6124.0	2714.6	1549.0	1491.8	1449.4	1419.5	1389.7	1362.3	1379.7	1409.6	1402.1
52.5°	5708.1	2515.3	1454.4	1394.6	1322.4	1329.9	1302.5	1287.6	1297.5	1297.5	1290.0
55°	5115.3	2067.1	1295.0	1252.7	1192.9	1212.8	1217.8	1197.9	1178.0	1195.4	1180.5
57.5°	3491.6	1459.4	1155.6	1155.6	1095.8	1123.2	1120.7	1073.4	1026.1	1031.0	1021.1
60°	2019.7	1163.0	1065.9	1055.9	993.7	1016.1	1021.1	988.7	916.5	921.5	911.5
62.5°	1148.1	993.7	931.4	916.5	904.0	924.0	924.0	881.6	819.4	824.3	814.4
65°	976.2	921.5	831.8	829.3	824.3	829.3	809.4	764.6	709.8	687.4	689.8
67.5°	886.6	851.7	764.6	742.1	727.2	724.7	687.4	645.0	620.1	600.2	597.7
70°	777.0	749.6	684.9	655.0	640.0	605.2	567.8	540.4	505.6	495.6	505.6
72.5°	615.1	612.6	587.7	555.4	523.0	495.6	463.2	425.9	393.5	386.0	368.6
75°	425.9	430.8	435.8	430.8	403.5	368.6	331.2	301.3	261.5	239.1	234.1
77.5°	278.9	286.4	293.9	283.9	266.5	234.1	209.2	171.8	142.0	124.5	122.0
80°	204.2	214.2	219.2	211.7	191.8	166.9	139.5	109.6	87.2	72.2	72.2
82.5°	156.9	166.9	171.8	159.4	139.5	119.5	99.6	77.2	59.8	47.3	44.8
85°	54.8	52.3	62.3	64.8	77.2	72.2	59.8	44.8	34.9	24.9	22.4
87.5°	14.9	14.9	17.4	17.4	14.9	12.5	12.5	12.5	10.0	7.5	7.5
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)