

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: P529398

Luminaire Tested: **GALN-SA4C-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529398
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-SA4C-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 25096 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

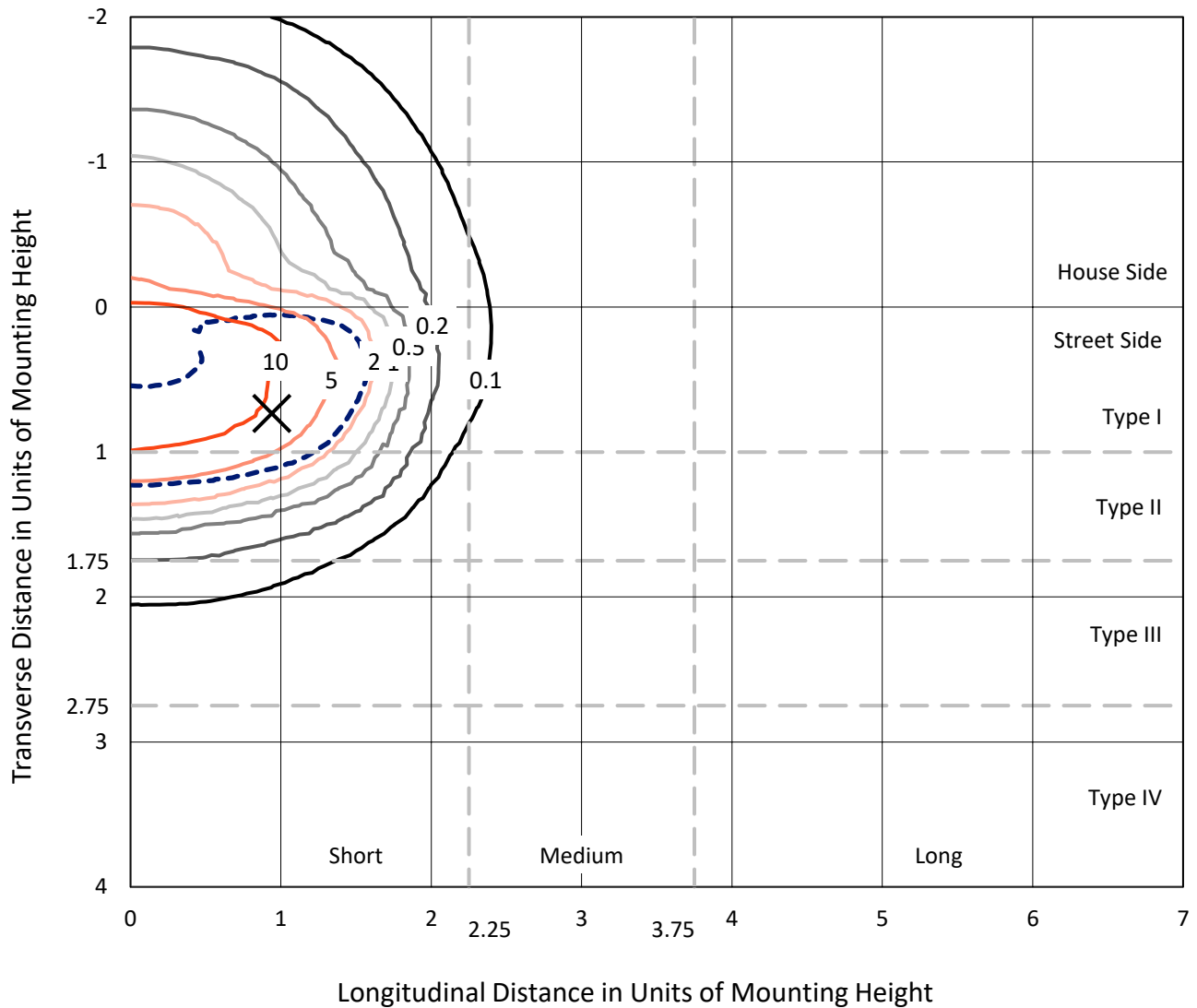
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

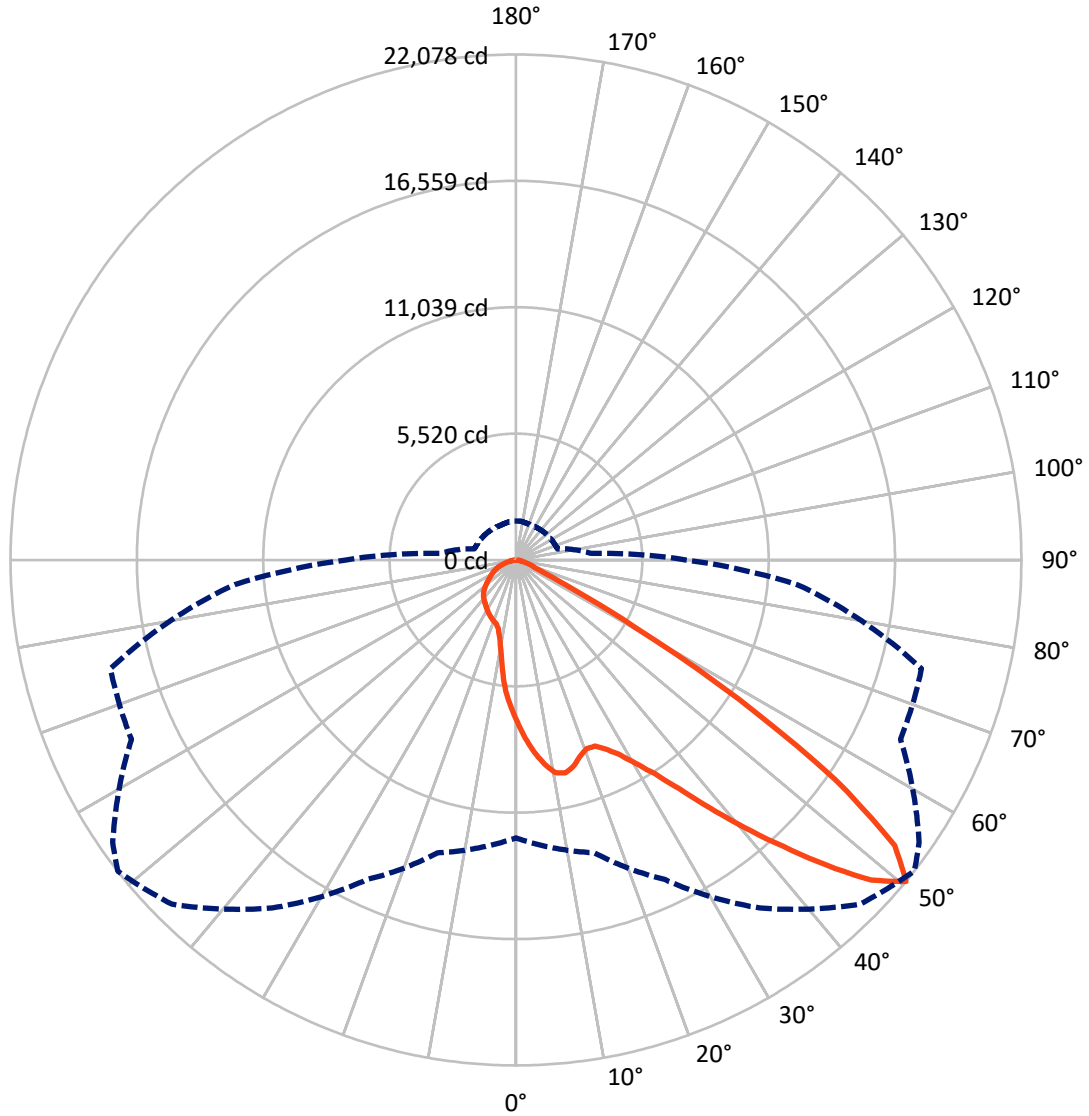
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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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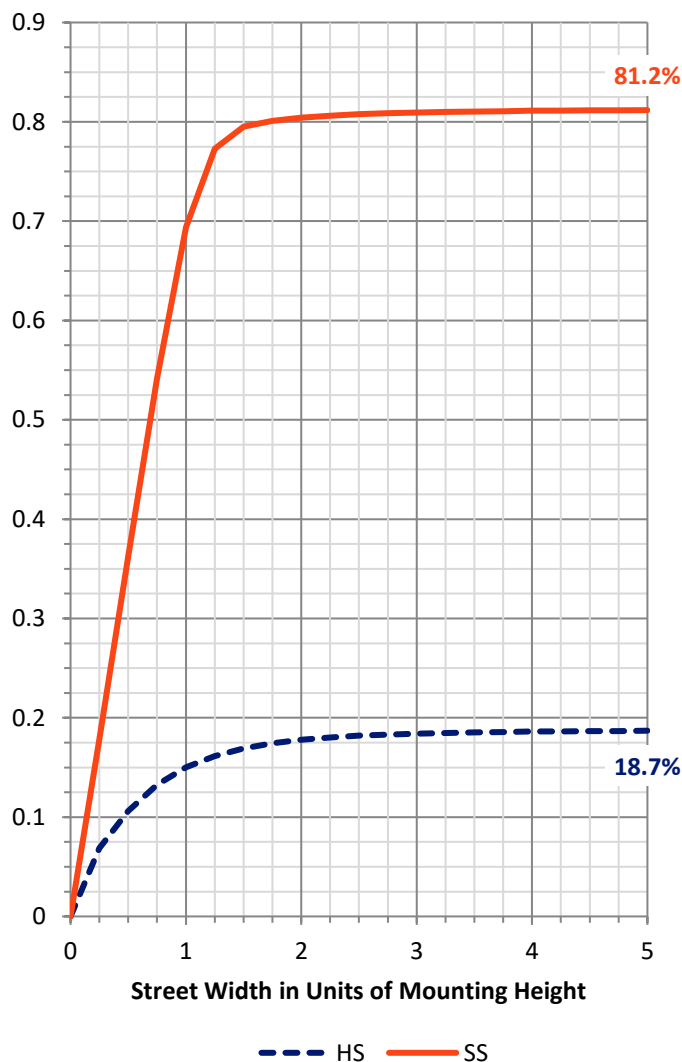
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4717.5	0.0	4717.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20378.5	0.0	20378.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	25096.0	0.0	25096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.0	2.6
10°-20°	1747.6	7.0
20°-30°	2943.7	11.7
30°-40°	4939.8	19.7
40°-50°	7556.7	30.1
50°-60°	5509.5	22.0
60°-70°	1226.1	4.9
70°-80°	442.3	1.8
80°-90°	78.3	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°	25096.0	100.0
0°-180°	25096.0	100.0

Coefficient of Utilization



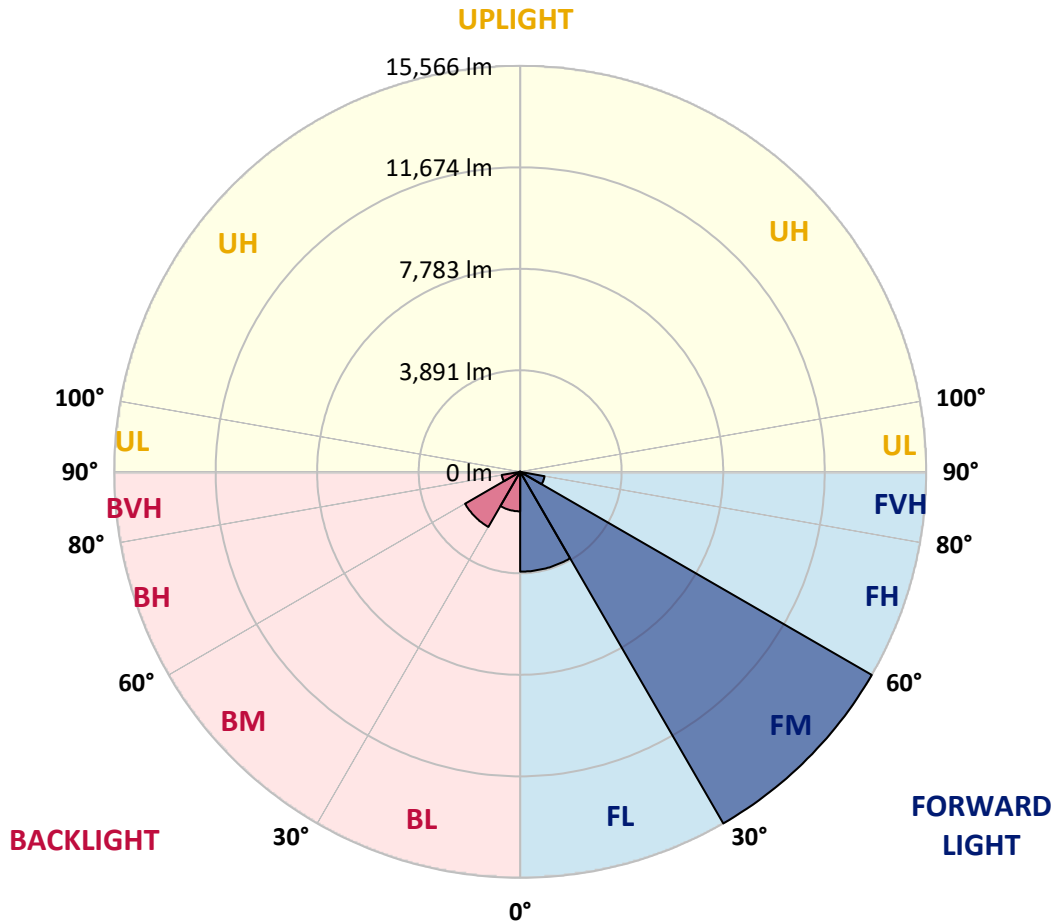
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3828.0	15.3			
FM (30°-60°)	15565.8	62.0			
FH (60°-80°)	949.7	3.8			G1/1800
FVH (80°-90°)	35.1	0.1			G1/100
BL (0°-30°)	1515.3	6.0	B3/2500		
BM (30°-60°)	2440.2	9.7	B2/2500		
BH (60°-80°)	718.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	43.2	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°	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1
2.5°	8329.3	8169.0	8187.1	8072.2	7948.2	7911.9	7784.9	7663.9	7573.2	7379.6	7201.2
5°	9103.5	9055.1	8982.6	8891.8	8798.1	8568.2	8438.2	8286.9	7954.3	7654.8	7358.4
7.5°	9215.4	9206.4	9245.7	9245.7	9279.0	9191.2	9006.8	8900.9	8547.0	8060.1	7509.7
10°	8429.1	8456.3	8646.9	8894.9	9239.6	9478.6	9448.3	9421.1	9034.0	8368.6	7688.1
12.5°	7803.0	7742.5	7854.4	8066.2	8583.3	9161.0	9551.2	9554.2	9454.4	8861.6	7818.2
15°	7449.2	7491.5	7521.8	7621.6	8011.7	8680.1	9366.7	9569.3	10007.8	9209.4	8023.8
17.5°	7676.0	7533.9	7527.8	7552.0	7751.6	8253.7	9024.9	9372.7	10310.3	9657.0	8277.9
20°	7972.4	7969.4	7884.7	7854.4	7851.4	8299.0	8801.1	9272.9	10470.6	10237.7	8534.9
22.5°	8492.6	8492.6	8353.5	8286.9	8144.8	8510.8	8831.3	9151.9	10736.7	10636.9	8658.9
25°	9363.6	9221.5	8982.6	8819.2	8737.6	8867.6	9151.9	9439.3	10969.6	11060.3	8916.0
27.5°	10168.1	9944.3	9826.4	9545.1	9436.2	9360.6	9620.7	9911.1	11241.8	11719.7	9055.1
30°	11081.5	11042.2	10830.5	10467.6	10198.4	10059.3	10298.2	10585.5	11740.8	12394.1	9375.7
32.5°	12714.7	12357.8	12070.5	11625.9	11187.4	10891.0	11126.9	11317.4	12569.5	13098.8	9726.6
35°	14478.0	14363.0	13867.0	13065.5	12394.1	12128.0	12267.1	12409.2	13534.3	14175.5	10316.3
37.5°	16211.0	16053.7	15645.4	14970.9	14154.3	13613.0	13712.8	13879.1	14617.1	15627.2	11036.2
40°	17457.0	17263.5	17057.8	16958.0	16147.4	15406.5	15349.0	15391.3	16080.9	16988.2	11834.6
42.5°	17547.8	17786.7	17850.2	18252.4	18061.9	17454.0	17100.1	17109.2	17478.2	18334.1	12642.1
45°	17357.2	17136.4	17605.2	18703.1	19332.2	19616.5	19020.7	18945.0	18343.2	19114.4	13044.4
47.5°	15358.1	15418.6	16211.0	17947.0	19764.7	21034.9	20895.8	20644.8	18805.9	19087.2	12980.9
50°	12140.1	12506.0	13241.0	15403.4	18554.9	21258.7	22078.4	21497.7	18530.7	18337.1	12333.6
52.5°	8084.3	8235.5	8719.4	11511.0	14919.5	19002.5	20717.4	20850.4	18276.6	17354.2	11514.0
55°	3599.1	3587.0	4267.5	6012.6	9360.6	14459.8	16927.7	17738.3	17299.8	16353.1	10715.6
57.5°	1524.3	1575.7	1854.0	2598.0	4603.2	8725.5	11468.6	12179.4	13304.5	13428.5	8220.4
60°	1031.3	1037.4	1113.0	1300.5	1926.6	4098.1	6015.6	6868.5	7673.0	7618.5	4361.2
62.5°	810.5	831.7	889.2	964.8	1143.2	1860.0	2691.7	3166.6	3218.0	2706.9	1654.4
65°	692.6	695.6	753.1	816.6	895.2	1082.7	1297.5	1321.7	1336.8	1288.4	1215.8
67.5°	571.6	577.7	623.0	695.6	768.2	828.7	889.2	919.4	989.0	1125.1	1106.9
70°	453.7	462.7	502.1	562.5	629.1	665.4	741.0	768.2	831.7	937.6	979.9
72.5°	344.8	347.8	381.1	423.4	483.9	520.2	583.7	614.0	656.3	747.0	786.4
75°	248.0	257.1	281.3	302.4	311.5	335.7	396.2	429.5	490.0	529.3	532.3
77.5°	130.1	136.1	142.1	142.1	172.4	217.8	257.1	275.2	317.6	347.8	332.7
80°	51.4	54.4	69.6	93.8	121.0	157.3	184.5	193.6	229.9	248.0	257.1
82.5°	30.2	33.3	45.4	66.5	87.7	111.9	133.1	142.1	166.3	187.5	193.6
85°	15.1	18.1	27.2	42.3	57.5	69.6	66.5	63.5	63.5	60.5	63.5
87.5°	6.0	6.0	9.1	9.1	9.1	12.1	15.1	15.1	15.1	18.1	18.1
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°	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1
2.5°	7083.2	6962.2	6850.3	6644.7	6420.9	6357.4	6097.3	6003.5	5937.0	5858.3	5834.1
5°	7119.5	6959.2	6599.3	6185.0	5855.3	5431.9	5153.6	4854.2	4636.5	4582.0	4566.9
7.5°	7195.1	6919.9	6299.9	5673.8	4999.4	4424.7	3986.2	3750.3	3541.6	3529.5	3508.3
10°	7279.8	6801.9	5973.3	4990.3	4128.3	3596.0	3332.9	3230.1	3178.7	3166.6	3160.5
12.5°	7349.4	6777.8	5607.3	4324.9	3511.4	3190.8	3112.1	3103.1	3124.2	3130.3	3142.4
15°	7379.6	6681.0	5165.7	3729.1	3127.3	3009.3	3042.6	3078.9	3094.0	3133.3	3103.1
17.5°	7437.1	6557.0	4621.3	3257.3	2912.5	2933.7	2991.2	3033.5	3057.7	3084.9	3045.6
20°	7467.3	6445.1	4110.2	2976.0	2836.9	2876.2	2954.9	2988.1	3018.4	3030.5	2985.1
22.5°	7440.1	6215.2	3659.6	2749.2	2764.3	2815.7	2885.3	2921.6	2903.5	2855.1	2827.8
25°	7367.5	5891.6	3190.8	2604.0	2661.5	2752.2	2806.7	2779.5	2746.2	2719.0	2709.9
27.5°	7364.5	5495.4	2852.0	2471.0	2573.8	2697.8	2679.6	2655.5	2670.6	2649.4	2625.2
30°	7379.6	5111.3	2573.8	2395.4	2510.3	2570.8	2591.9	2567.7	2585.9	2546.6	2558.7
32.5°	7301.0	4736.3	2392.3	2307.6	2434.7	2431.6	2501.2	2519.4	2477.0	2395.4	2407.4
35°	7334.2	4433.8	2238.1	2268.3	2350.0	2350.0	2404.4	2383.3	2271.3	2223.0	2235.1
37.5°	7564.1	4137.4	2162.5	2213.9	2268.3	2292.5	2274.4	2183.6	2156.4	2156.4	2162.5
40°	7781.9	3883.4	2117.1	2201.8	2192.7	2207.8	2074.8	2083.8	2083.8	2086.9	2071.7
42.5°	7975.4	3711.0	2080.8	2129.2	2144.3	2065.7	1984.0	1975.0	1996.1	1993.1	1981.0
45°	8045.0	3568.8	2029.4	2047.5	2059.6	1929.6	1890.3	1872.1	1896.3	1905.4	1917.5
47.5°	7778.8	3450.9	1971.9	1935.6	1911.4	1826.8	1775.3	1742.1	1772.3	1823.7	1835.8
50°	7437.1	3296.6	1881.2	1811.6	1760.2	1723.9	1687.6	1654.4	1675.5	1711.8	1702.8
52.5°	6932.0	3054.7	1766.3	1693.7	1606.0	1615.0	1581.8	1563.6	1575.7	1575.7	1566.7
55°	6212.2	2510.3	1572.7	1521.3	1448.7	1472.9	1478.9	1454.8	1430.6	1451.7	1433.6
57.5°	4240.3	1772.3	1403.3	1403.3	1330.8	1364.0	1361.0	1303.5	1246.1	1252.1	1240.0
60°	2452.8	1412.4	1294.5	1282.4	1206.7	1234.0	1240.0	1200.7	1113.0	1119.0	1106.9
62.5°	1394.3	1206.7	1131.1	1113.0	1097.9	1122.1	1122.1	1070.6	995.0	1001.1	989.0
65°	1185.6	1119.0	1010.2	1007.1	1001.1	1007.1	982.9	928.5	862.0	834.7	837.8
67.5°	1076.7	1034.4	928.5	901.3	883.1	880.1	834.7	783.3	753.1	728.9	725.9
70°	943.6	910.4	831.7	795.4	777.3	734.9	689.6	656.3	614.0	601.9	614.0
72.5°	747.0	744.0	713.8	674.4	635.1	601.9	562.5	517.2	477.9	468.8	447.6
75°	517.2	523.2	529.3	523.2	490.0	447.6	402.2	366.0	317.6	290.3	284.3
77.5°	338.7	347.8	356.9	344.8	323.6	284.3	254.1	208.7	172.4	151.2	148.2
80°	248.0	260.1	266.2	257.1	232.9	202.6	169.4	133.1	105.9	87.7	87.7
82.5°	190.5	202.6	208.7	193.6	169.4	145.2	121.0	93.8	72.6	57.5	54.4
85°	66.5	63.5	75.6	78.6	93.8	87.7	72.6	54.4	42.3	30.2	27.2
87.5°	18.1	18.1	21.2	21.2	18.1	15.1	15.1	15.1	12.1	9.1	9.1
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)