

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: P531666

Luminaire Tested: **GALN-SA7A-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22536 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

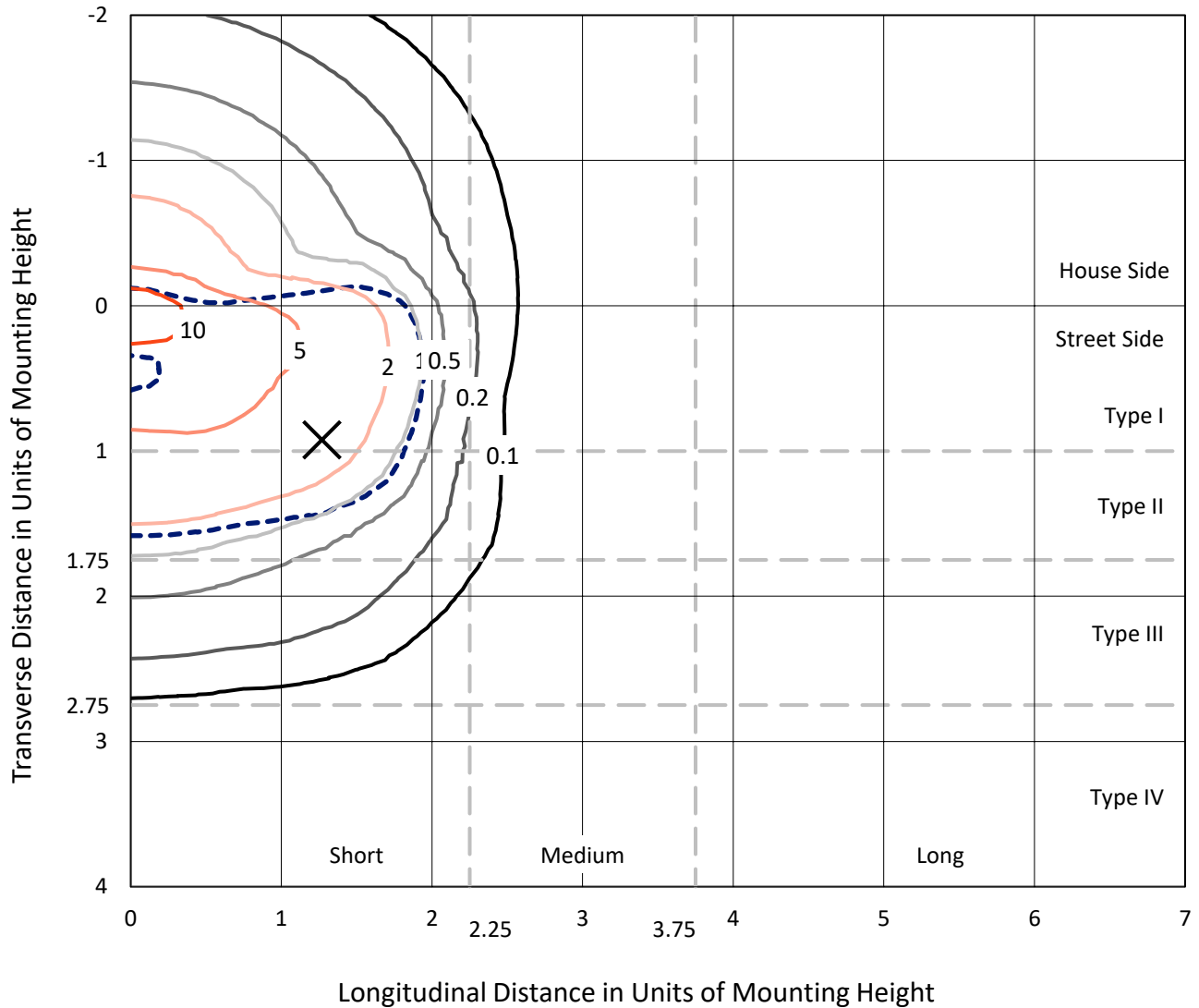
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

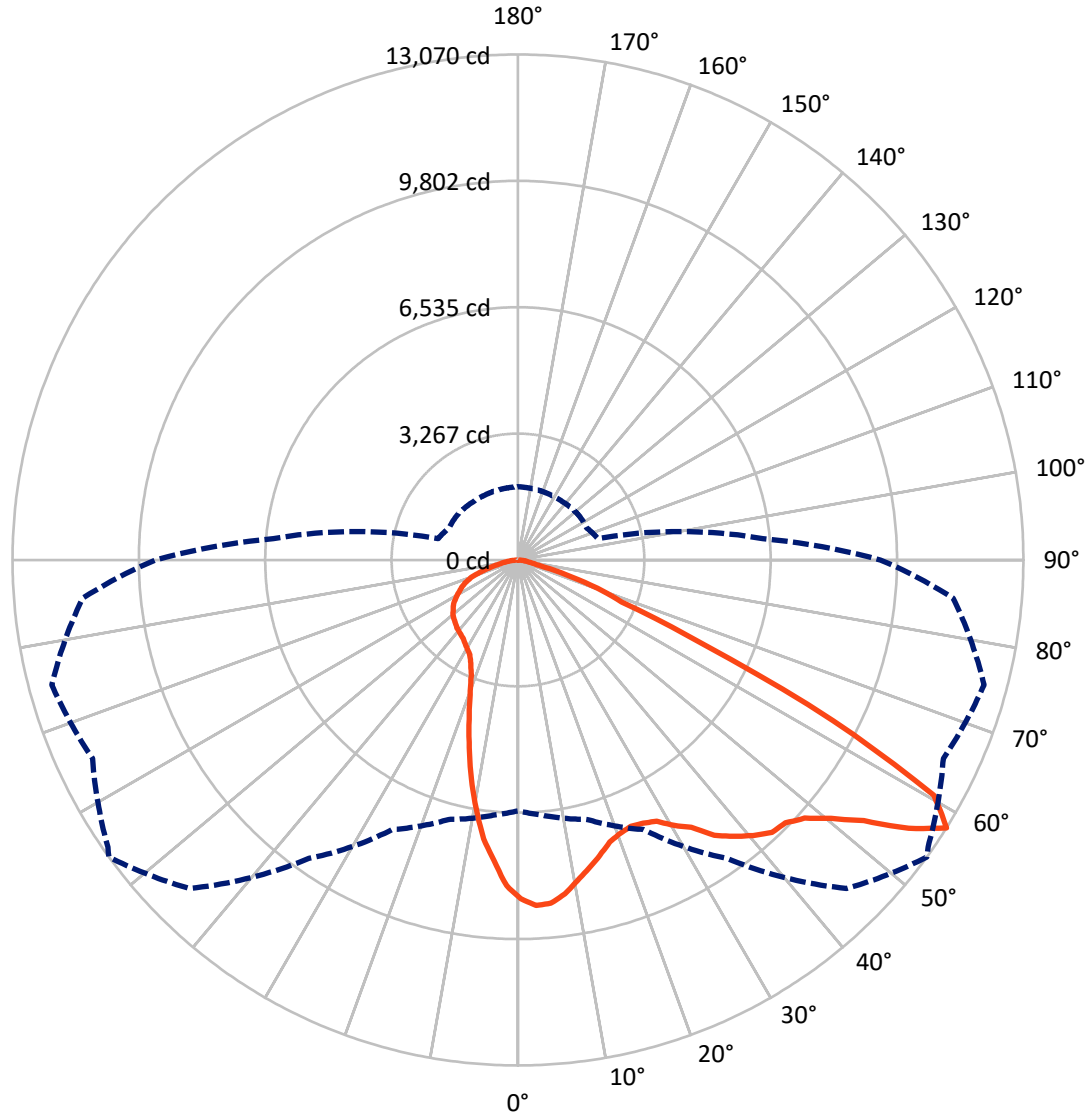
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6234.7	0.0	6234.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	16301.3	0.0	16301.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	22536.0	0.0	22536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.4	3.4
10°-20°	1749.1	7.8
20°-30°	2457.5	10.9
30°-40°	3435.6	15.2
40°-50°	4651.1	20.6
50°-60°	5665.2	25.1
60°-70°	2950.7	13.1
70°-80°	756.1	3.4
80°-90°	115.3	0.5
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°	22536.0	100.0
0°-180°	22536.0	100.0

Coefficient of Utilization

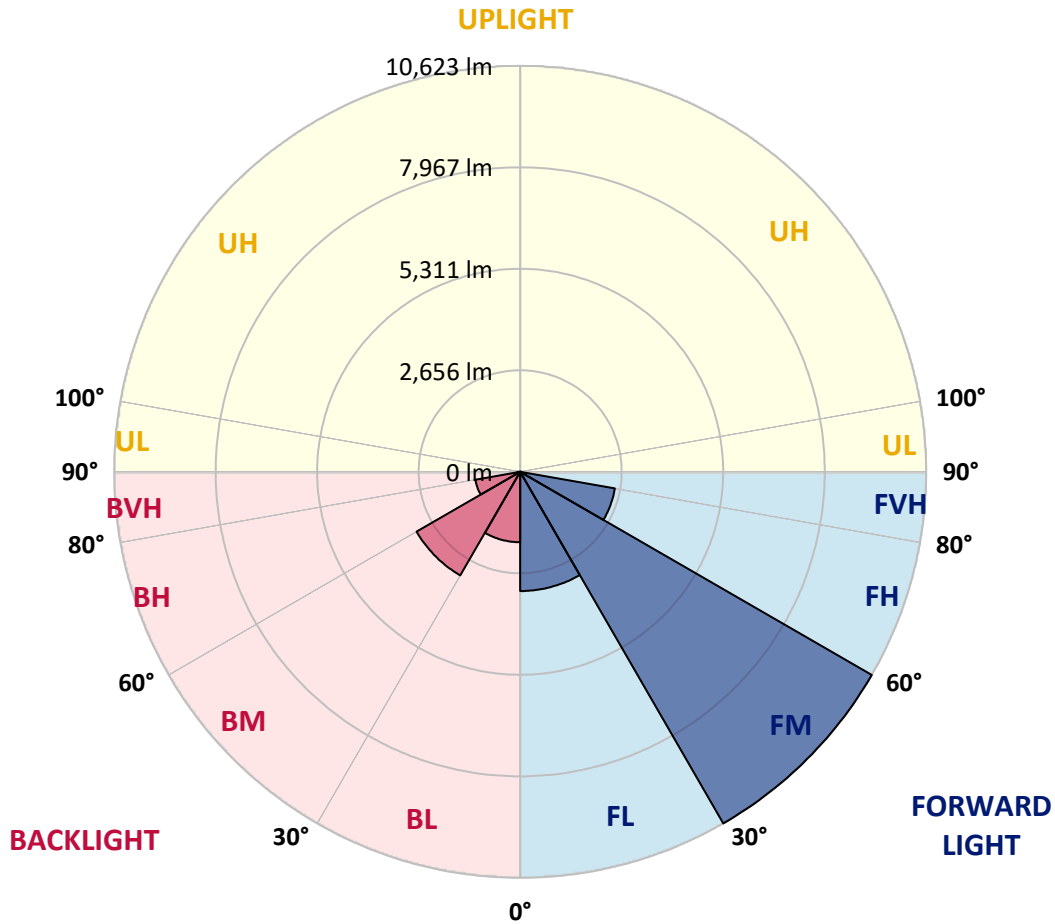


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.3	13.8			
FM (30°-60°)	10622.8	47.1			
FH (60°-80°)	2515.6	11.2			G2/5000
FVH (80°-90°)	43.6	0.2			G1/100
BL (0°-30°)	1842.7	8.2	B3/2500		
BM (30°-60°)	3129.1	13.9	B3/5000		
BH (60°-80°)	1191.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	71.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5
2.5°	9008.6	8973.8	8979.6	9026.0	8968.0	8944.9	8944.9	8831.9	8840.6	8762.4	8742.1
5°	8800.0	8718.9	8774.0	8843.5	8855.1	8878.2	8915.9	8886.9	8805.8	8721.8	8585.7
7.5°	8255.5	8327.9	8348.2	8397.4	8501.7	8597.3	8716.0	8634.9	8632.0	8548.0	8466.9
10°	7777.5	7734.1	7844.1	7916.6	8090.4	8249.7	8432.2	8423.5	8466.9	8371.3	8232.3
12.5°	7302.5	7267.7	7319.8	7485.0	7728.3	7960.0	8177.3	8096.2	8327.9	8310.5	8012.1
15°	6798.4	6824.5	6899.8	7053.4	7372.0	7650.1	7925.2	7928.1	8133.8	8203.3	7803.6
17.5°	6445.1	6416.1	6511.7	6740.5	7024.4	7357.5	7670.3	7734.1	8049.8	8090.4	7739.9
20°	6181.5	6222.0	6346.6	6462.4	6789.8	7192.4	7545.8	7569.0	8032.4	8142.5	7638.5
22.5°	6117.7	6094.6	6135.1	6323.4	6592.8	7030.2	7479.2	7566.1	8029.5	8125.1	7447.3
25°	6051.1	6126.4	6123.5	6311.8	6508.8	6899.8	7534.2	7629.8	8183.1	8214.9	7473.4
27.5°	6201.7	6193.0	6274.2	6288.6	6532.0	6934.6	7650.1	7722.5	8438.0	8411.9	7493.6
30°	6352.4	6308.9	6358.2	6529.1	6642.0	7134.5	7968.7	7962.9	8768.2	8750.8	7557.4
32.5°	6537.8	6517.5	6549.3	6700.0	6891.1	7401.0	8238.1	8409.0	9104.2	9214.3	7777.5
35°	6572.5	6656.5	6731.8	6934.6	7206.9	7832.6	8745.0	8886.9	9492.3	9837.0	8197.5
37.5°	6792.7	6824.5	7001.2	7360.4	7609.5	8409.0	9066.5	9156.3	9845.7	10236.8	8640.7
40°	7027.3	7064.9	7331.4	7708.0	8049.8	8785.6	9367.8	9396.7	9958.7	10543.8	8930.4
42.5°	7345.9	7380.7	7644.3	8116.4	8574.1	9107.1	9634.3	9666.1	9950.0	10897.2	9391.0
45°	7676.1	7760.1	8070.1	8606.0	9017.3	9483.6	9695.1	9825.5	10031.1	11213.0	9764.6
47.5°	8139.6	8217.8	8472.7	8997.0	9477.9	9813.9	9976.1	10103.5	10225.2	11488.1	10005.0
50°	8632.0	8646.5	8956.5	9431.5	9784.9	10187.5	10500.4	10543.8	10480.1	11806.8	10413.5
52.5°	8994.1	9040.5	9280.9	9744.3	10271.5	10766.9	11195.6	11241.9	11117.4	11925.5	10552.5
55°	8394.5	8368.4	8759.5	9376.5	10598.9	11630.1	12252.9	12287.6	11580.8	12293.4	11007.3
57.5°	6488.5	6613.1	6946.2	7690.6	9417.0	12012.4	13069.7	12945.2	12137.0	12478.8	11297.0
60°	4715.8	4686.8	4909.8	5408.1	7096.8	10352.6	12357.1	12484.6	11682.2	11247.7	9315.6
62.5°	3841.0	3800.4	3817.8	3835.2	4579.6	6870.9	9147.6	9144.7	8997.0	8084.6	6282.8
65°	3070.5	3166.0	3174.7	3305.1	3400.7	4104.6	5300.9	5584.8	4863.5	3988.7	2893.8
67.5°	2314.4	2279.7	2395.5	2859.0	3038.6	2963.3	2893.8	2925.6	2079.8	1500.5	1413.6
70°	1364.3	1349.8	1488.9	1992.9	2502.7	2355.0	2181.2	2184.1	1428.1	1048.6	1167.4
72.5°	747.3	744.4	773.4	1010.9	1422.3	1477.3	1309.3	1349.8	851.6	848.7	912.4
75°	417.1	408.4	399.7	446.1	512.7	541.7	553.3	559.1	585.1	654.6	680.7
77.5°	153.5	147.7	147.7	170.9	217.2	272.3	344.7	350.5	414.2	475.1	501.1
80°	52.1	57.9	78.2	107.2	144.8	194.1	234.6	240.4	292.6	333.1	341.8
82.5°	31.9	34.8	52.1	75.3	104.3	136.1	173.8	176.7	217.2	243.3	254.9
85°	14.5	17.4	29.0	46.3	66.6	89.8	92.7	92.7	89.8	92.7	86.9
87.5°	0.0	0.0	5.8	5.8	5.8	8.7	11.6	8.7	14.5	17.4	17.4
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°	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5	8759.5
2.5°	8681.3	8649.4	8550.9	8464.0	8438.0	8322.1	8151.2	8171.5	8046.9	8104.8	8044.0
5°	8562.5	8455.3	8203.3	8096.2	7815.2	7687.7	7600.8	7383.6	7282.2	7261.9	7175.0
7.5°	8258.4	8191.7	7876.0	7586.3	7288.0	7033.1	6705.8	6482.7	6323.4	6279.9	6152.5
10°	8017.9	7870.2	7432.8	6992.5	6566.7	6123.5	5697.7	5364.6	5202.4	5014.1	4950.4
12.5°	7780.4	7557.4	6966.5	6401.6	5851.2	5292.2	4776.6	4371.1	4017.7	3933.7	3904.7
15°	7632.7	7244.5	6549.3	5868.6	5086.5	4356.6	3841.0	3574.5	3357.2	3267.4	3331.2
17.5°	7438.6	6986.7	6149.6	5242.9	4382.6	3710.6	3279.0	3113.9	3035.7	3044.4	3018.3
20°	7195.3	6743.4	5625.3	4675.2	3754.1	3218.2	2972.0	2911.1	2922.7	2943.0	2934.3
22.5°	7021.5	6448.0	5245.8	4095.9	3244.3	2945.9	2844.5	2801.1	2838.7	2856.1	2841.6
25°	6888.2	6195.9	4785.3	3583.2	2948.8	2792.4	2746.0	2743.1	2801.1	2824.2	2809.8
27.5°	6766.6	5961.3	4327.6	3192.1	2751.8	2673.6	2659.1	2693.9	2731.5	2754.7	2775.0
30°	6694.2	5781.7	3898.9	2864.8	2653.3	2615.7	2589.6	2621.5	2641.7	2664.9	2653.3
32.5°	6763.7	5654.3	3484.7	2679.4	2572.2	2534.6	2569.3	2549.1	2583.8	2604.1	2572.2
35°	6980.9	5541.3	3189.2	2580.9	2479.5	2494.0	2499.8	2491.1	2505.6	2488.2	2525.9
37.5°	7195.3	5500.7	2916.9	2496.9	2436.1	2436.1	2430.3	2412.9	2441.9	2436.1	2453.5
40°	7467.6	5526.8	2685.2	2407.1	2395.5	2389.7	2366.6	2363.7	2352.1	2355.0	2360.8
42.5°	7705.1	5584.8	2552.0	2349.2	2357.9	2369.5	2326.0	2291.3	2305.7	2276.8	2276.8
45°	7957.1	5636.9	2433.2	2308.6	2299.9	2297.0	2262.3	2242.0	2230.4	2233.3	2259.4
47.5°	8354.0	5712.2	2343.4	2253.6	2259.4	2215.9	2207.3	2181.2	2192.8	2210.1	2213.0
50°	8634.9	5871.5	2273.9	2189.9	2210.1	2181.2	2129.0	2117.5	2117.5	2146.4	2140.6
52.5°	8831.9	6094.6	2207.3	2120.4	2129.0	2105.9	2088.5	2062.4	2045.0	2085.6	2105.9
55°	9434.4	6465.3	2189.9	2062.4	2059.5	2036.3	2004.5	1978.4	1969.7	1975.5	2016.1
57.5°	9376.5	6349.5	2134.8	1961.0	1955.2	1923.4	1891.5	1882.8	1879.9	1885.7	1897.3
60°	7612.4	4689.7	1906.0	1845.2	1836.5	1830.7	1798.8	1764.1	1746.7	1764.1	1749.6
62.5°	5037.3	3140.0	1680.1	1706.1	1711.9	1697.4	1645.3	1610.5	1616.3	1636.6	1604.7
65°	2473.7	1845.2	1523.6	1593.2	1599.0	1558.4	1509.2	1468.6	1448.3	1465.7	1451.2
67.5°	1413.6	1410.7	1396.2	1468.6	1465.7	1425.2	1346.9	1312.2	1277.4	1283.2	1274.5
70°	1199.2	1222.4	1251.4	1294.8	1291.9	1245.6	1152.9	1126.8	1077.6	1071.8	1057.3
72.5°	944.3	984.9	1048.6	1080.5	1054.4	996.4	935.6	892.2	848.7	822.7	831.3
75°	701.0	758.9	793.7	814.0	773.4	741.5	692.3	640.2	588.0	564.8	556.2
77.5°	509.8	527.2	559.1	573.5	547.5	515.6	486.6	434.5	385.3	353.4	344.7
80°	356.3	367.9	391.0	391.0	391.0	376.6	338.9	286.8	254.9	225.9	220.1
82.5°	249.1	260.7	283.9	272.3	269.4	252.0	228.8	188.3	153.5	133.2	127.5
85°	86.9	95.6	115.9	139.0	147.7	144.8	130.3	104.3	81.1	66.6	60.8
87.5°	20.3	20.3	23.2	20.3	20.3	23.2	20.3	20.3	20.3	14.5	11.6
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)