

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: P529844

Luminaire Tested: **GALN-SA5A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18082 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

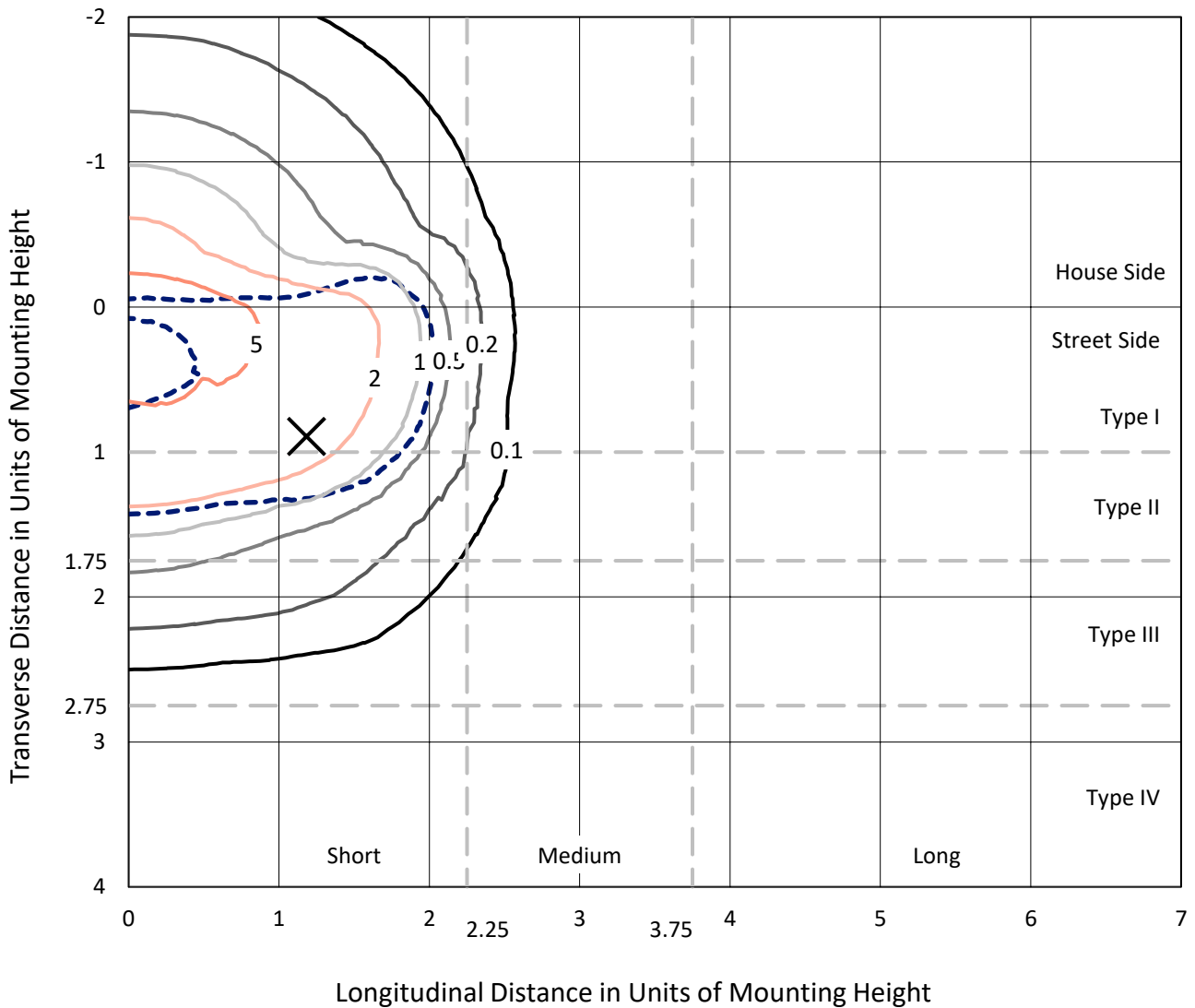
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

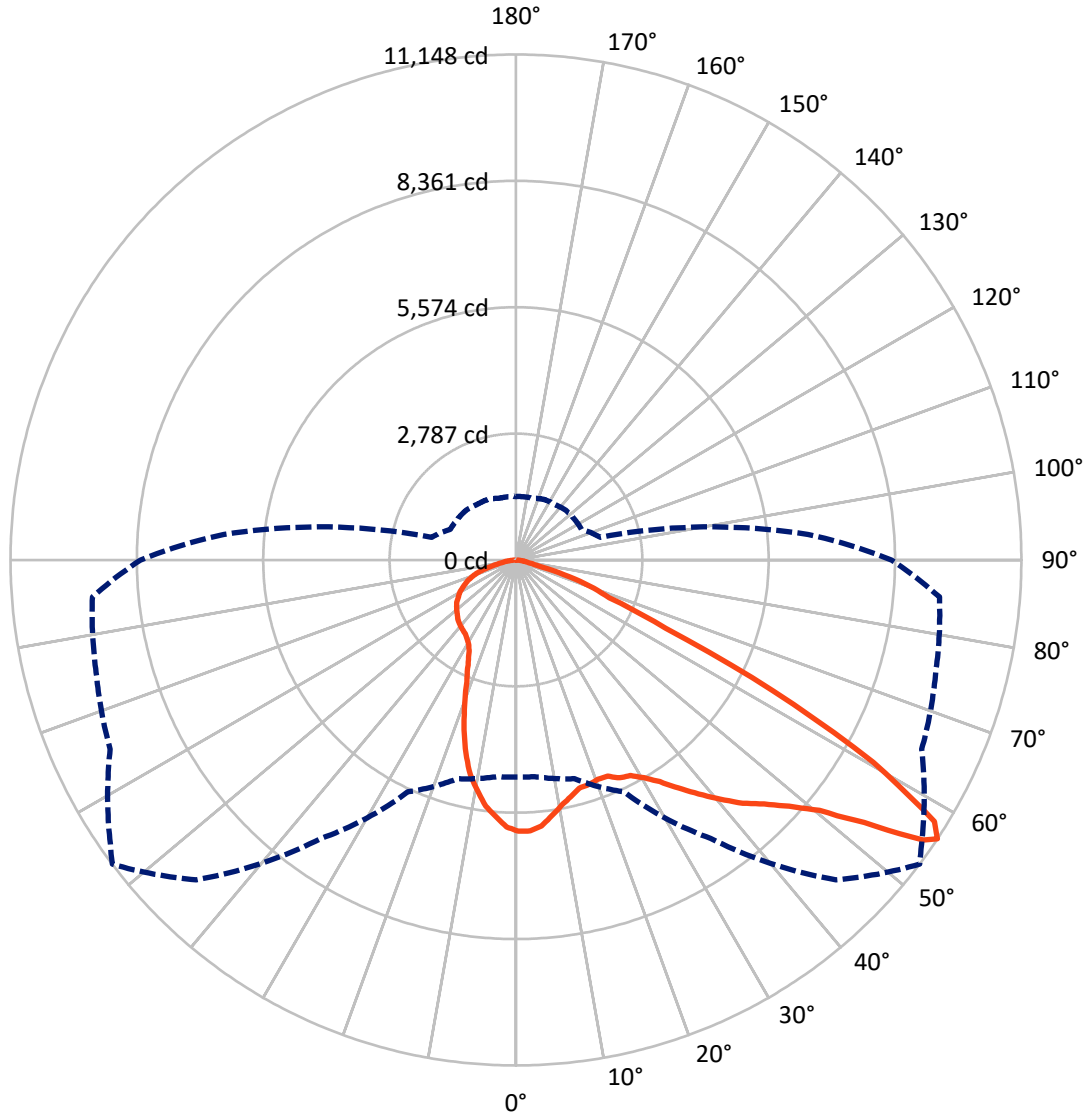
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5276.7	0.0	5276.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12805.3	0.0	12805.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	18082.0	0.0	18082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	2.9
10°-20°	1322.7	7.3
20°-30°	1950.4	10.8
30°-40°	2786.8	15.4
40°-50°	3835.7	21.2
50°-60°	4532.7	25.1
60°-70°	2415.6	13.4
70°-80°	612.8	3.4
80°-90°	95.6	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°	18082.0	100.0
0°-180°	18082.0	100.0

Coefficient of Utilization

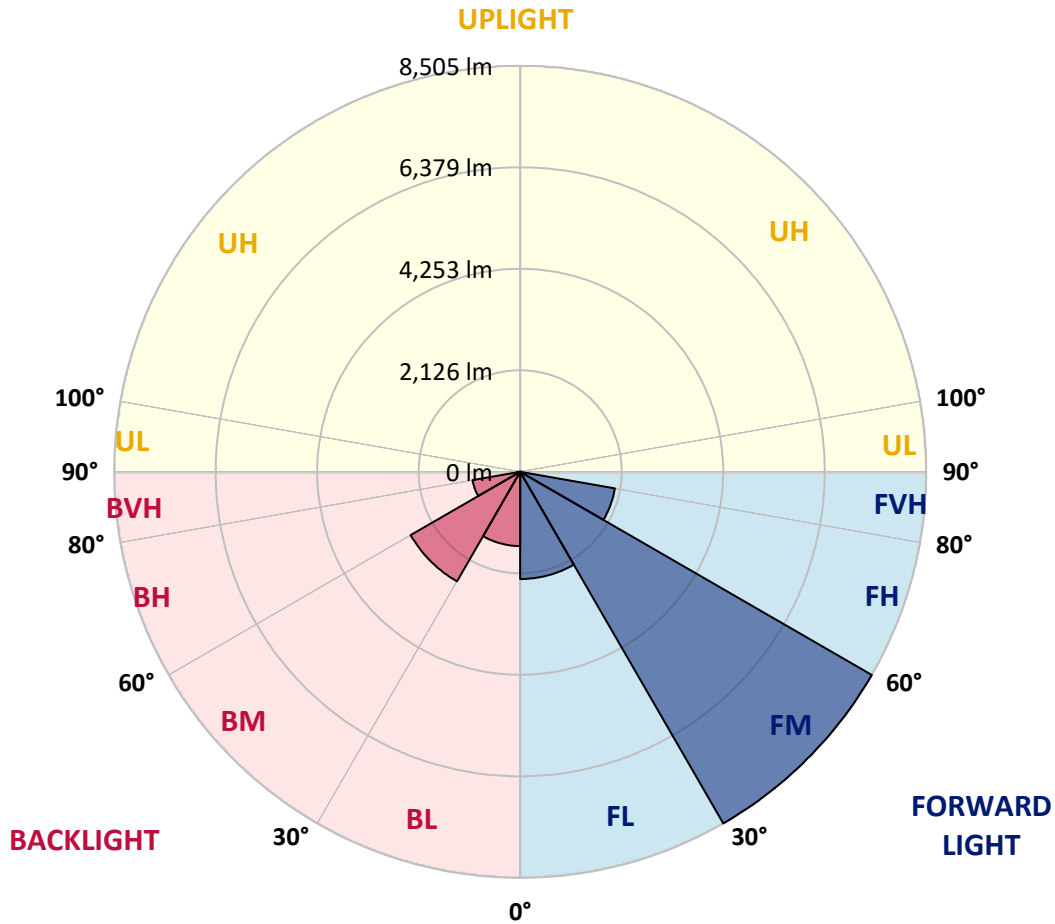


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2246.4	12.4			
FM (30°-60°)	8505.4	47.0			
FH (60°-80°)	2015.0	11.1			G2/5000
FVH (80°-90°)	38.4	0.2			G1/100
BL (0°-30°)	1556.3	8.6	B3/2500		
BM (30°-60°)	2649.8	14.7	B3/5000		
BH (60°-80°)	1013.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	57.2	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°	53°	55°	65°	75°	85°
0°	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2
2.5°	5908.0	5857.0	5887.1	5875.5	5970.6	5998.5	5984.6	5996.2	6049.5	6024.0	5970.6
5°	5520.6	5592.5	5606.5	5641.3	5696.9	5805.9	5891.8	5915.0	5940.5	6058.8	6047.2
7.5°	5168.1	5216.8	5191.3	5293.3	5413.9	5590.2	5694.6	5713.2	5947.4	6012.4	6061.1
10°	4945.4	4896.7	5012.6	5040.5	5177.3	5379.1	5504.4	5580.9	5794.4	6051.8	6082.0
12.5°	4738.9	4722.7	4792.3	4871.2	5024.2	5233.0	5360.6	5390.7	5720.1	5991.5	6133.0
15°	4585.8	4567.3	4636.9	4694.9	4873.5	5059.0	5221.4	5307.2	5638.9	5956.7	6088.9
17.5°	4465.2	4462.9	4502.3	4606.7	4790.0	4945.4	5207.5	5212.1	5597.2	6010.1	6126.1
20°	4458.3	4455.9	4462.9	4578.9	4745.9	4936.1	5163.4	5205.2	5597.2	5973.0	6128.4
22.5°	4516.3	4479.1	4520.9	4595.1	4715.7	4952.3	5179.7	5272.4	5731.7	6156.2	6232.8
25°	4609.0	4618.3	4641.5	4667.0	4736.6	4989.5	5323.5	5400.0	5889.5	6313.9	6376.6
27.5°	4778.4	4773.7	4783.0	4796.9	4857.2	5024.2	5381.5	5578.6	6218.8	6594.6	6532.0
30°	5026.6	5010.3	5047.4	5096.2	5040.5	5135.6	5574.0	5722.4	6525.0	6877.6	6706.0
32.5°	5251.6	5311.9	5381.5	5402.3	5335.1	5353.6	5829.1	5979.9	6780.2	7225.5	6919.4
35°	5532.2	5580.9	5673.7	5738.7	5727.1	5671.4	6177.1	6376.6	7149.0	7480.7	7144.4
37.5°	5805.9	5863.9	6017.0	6209.6	6102.9	6077.3	6548.2	6712.9	7262.7	7617.6	7309.0
40°	6246.7	6244.4	6508.8	6608.5	6703.6	6659.6	6933.3	6988.9	7323.0	7587.4	7313.7
42.5°	6763.9	6731.5	7000.5	7156.0	7278.9	7283.5	7334.6	7316.0	7350.8	7434.3	7265.0
45°	7255.7	7325.3	7596.7	7875.0	7998.0	8011.9	7673.2	7638.4	7399.5	7390.2	7172.2
47.5°	7856.5	7872.7	8095.4	8461.9	8747.2	8649.8	8111.6	8035.1	7612.9	7684.8	7327.6
50°	7891.3	8011.9	8211.4	8642.8	9519.6	9494.1	8679.9	8536.1	7956.2	8102.3	7761.4
52.5°	7162.9	7135.1	7371.7	8076.8	9461.6	10333.8	9621.7	9278.4	8693.8	8582.5	8464.2
55°	5458.0	5523.0	5731.7	6443.8	8216.0	10345.4	10904.4	10623.7	9482.5	9292.3	9155.4
56°	4787.6	4796.9	4994.1	5643.6	7496.9	9976.6	11148.0	10920.7	9874.5	9584.6	9375.8
57.5°	3968.8	3915.5	4017.5	4372.4	6327.9	9197.2	10881.2	11103.9	10333.8	9900.0	9610.1
60°	3124.5	3112.9	3071.1	3136.1	3999.0	6928.6	9058.0	9559.1	10287.4	9603.1	9204.2
62.5°	2551.6	2493.6	2577.1	2669.9	2778.9	4298.2	6365.0	6659.6	8167.3	7666.3	6914.7
65°	1978.6	1950.8	2055.2	2356.7	2421.7	2730.2	3625.5	3852.8	4822.4	4736.6	4170.6
67.5°	1361.6	1366.2	1456.7	1916.0	2245.4	2217.5	2219.9	2338.2	2516.8	1869.6	1628.4
70°	862.9	860.6	909.3	1234.0	1807.0	1825.5	1732.7	1697.9	1609.8	974.2	1032.2
72.5°	554.4	538.1	563.7	682.0	934.8	1080.9	1113.4	1134.3	932.5	765.5	830.4
75°	313.1	296.9	287.6	317.8	368.8	426.8	468.6	482.5	540.5	579.9	614.7
77.5°	95.1	85.8	104.4	139.2	183.2	245.9	299.2	308.5	364.2	410.6	445.4
80°	41.8	46.4	64.9	92.8	129.9	174.0	211.1	225.0	262.1	296.9	306.2
82.5°	25.5	27.8	44.1	62.6	90.5	122.9	150.8	155.4	192.5	220.4	227.3
85°	9.3	11.6	23.2	37.1	58.0	78.9	78.9	85.8	78.9	78.9	85.8
87.5°	0.0	0.0	2.3	4.6	4.6	7.0	9.3	9.3	11.6	13.9	16.2
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°	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2	5982.2
2.5°	5998.5	5986.9	5968.3	5901.1	5894.1	5873.2	5757.2	5738.7	5757.2	5701.6	5706.2
5°	5986.9	6021.7	5882.5	5815.2	5690.0	5599.5	5495.1	5441.8	5346.7	5286.4	5353.6
7.5°	6037.9	6024.0	5850.0	5703.9	5516.0	5286.4	5103.1	4998.7	4831.7	4785.3	4820.1
10°	6019.4	5945.1	5741.0	5548.5	5193.6	4991.8	4694.9	4407.2	4249.5	4168.3	4156.7
12.5°	5993.8	5973.0	5632.0	5300.3	4926.8	4502.3	4084.8	3813.4	3555.9	3444.6	3460.8
15°	6024.0	5847.7	5427.9	5008.0	4511.6	3954.9	3504.9	3154.7	2976.0	2904.1	2904.1
17.5°	6010.1	5787.4	5330.4	4680.9	4052.3	3393.6	2899.5	2688.4	2614.2	2614.2	2635.1
20°	6017.0	5826.8	5133.3	4353.9	3509.5	2857.7	2498.2	2421.7	2454.1	2465.7	2477.3
22.5°	6056.5	5696.9	4940.7	3994.3	3006.2	2444.9	2268.6	2270.9	2328.9	2391.5	2379.9
25°	6105.2	5645.9	4706.5	3637.1	2621.1	2243.0	2187.4	2180.4	2224.5	2257.0	2261.6
27.5°	6063.4	5557.8	4467.5	3191.8	2305.7	2108.5	2096.9	2101.6	2115.5	2180.4	2159.5
30°	6200.3	5583.3	4168.3	2818.3	2131.7	2064.4	2050.5	2043.6	2064.4	2083.0	2066.8
32.5°	6369.6	5492.8	3945.6	2458.8	2045.9	2032.0	2004.1	1994.9	2006.5	1987.9	1997.2
35°	6443.8	5476.6	3655.7	2201.3	1978.6	1967.0	1950.8	1948.5	1950.8	1934.5	1920.6
37.5°	6485.6	5553.1	3324.0	2083.0	1936.9	1948.5	1911.3	1906.7	1865.0	1874.2	1881.2
40°	6557.5	5434.8	3054.9	1969.3	1911.3	1888.2	1855.7	1848.7	1820.9	1804.6	1820.9
42.5°	6453.1	5400.0	2790.5	1920.6	1874.2	1848.7	1825.5	1786.1	1776.8	1762.9	1753.6
45°	6369.6	5200.5	2553.9	1860.3	1830.2	1816.2	1772.2	1730.4	1695.6	1709.5	1688.7
47.5°	6432.2	5130.9	2319.6	1809.3	1769.9	1753.6	1709.5	1677.1	1642.3	1626.0	1621.4
50°	6682.8	5260.8	2122.4	1772.2	1718.8	1709.5	1651.6	1614.4	1582.0	1570.4	1575.0
52.5°	7281.2	5615.7	1987.9	1695.6	1670.1	1628.4	1595.9	1549.5	1528.6	1491.5	1514.7
55°	8039.7	6193.3	1953.1	1623.7	1609.8	1572.7	1528.6	1493.8	1454.4	1424.2	1417.3
56°	8283.3	6469.4	1925.3	1595.9	1572.7	1551.8	1493.8	1472.9	1410.3	1403.4	1398.7
57.5°	8480.4	6712.9	1929.9	1542.5	1519.3	1500.8	1466.0	1415.0	1373.2	1347.7	1359.3
60°	8035.1	6283.8	1841.8	1461.3	1456.7	1421.9	1373.2	1350.0	1299.0	1268.8	1261.9
62.5°	5973.0	4265.7	1493.8	1357.0	1354.6	1317.5	1261.9	1236.3	1227.1	1185.3	1185.3
65°	3440.0	2674.5	1292.0	1271.1	1252.6	1215.5	1159.8	1138.9	1115.7	1101.8	1090.2
67.5°	1468.3	1387.1	1173.7	1171.4	1150.5	1104.1	1048.5	1016.0	985.8	958.0	971.9
70°	1064.7	1080.9	1060.1	1048.5	1022.9	965.0	916.2	876.8	830.4	811.9	825.8
72.5°	844.3	879.1	909.3	911.6	881.4	814.2	760.8	707.5	656.4	630.9	642.5
75°	640.2	663.4	693.6	700.5	656.4	610.1	559.0	503.4	463.9	433.8	438.4
77.5°	461.6	457.0	484.8	480.2	459.3	426.8	380.4	329.4	285.3	257.5	259.8
80°	315.5	322.4	338.7	336.3	310.8	289.9	255.2	213.4	180.9	157.7	153.1
82.5°	220.4	232.0	245.9	234.3	213.4	192.5	167.0	136.9	111.3	92.8	88.1
85°	78.9	90.5	104.4	111.3	118.3	113.7	95.1	76.5	55.7	46.4	44.1
87.5°	16.2	18.6	20.9	20.9	20.9	18.6	16.2	16.2	13.9	7.0	7.0
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)