

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: P530662

Luminaire Tested: **GALN-SA5D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24281 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

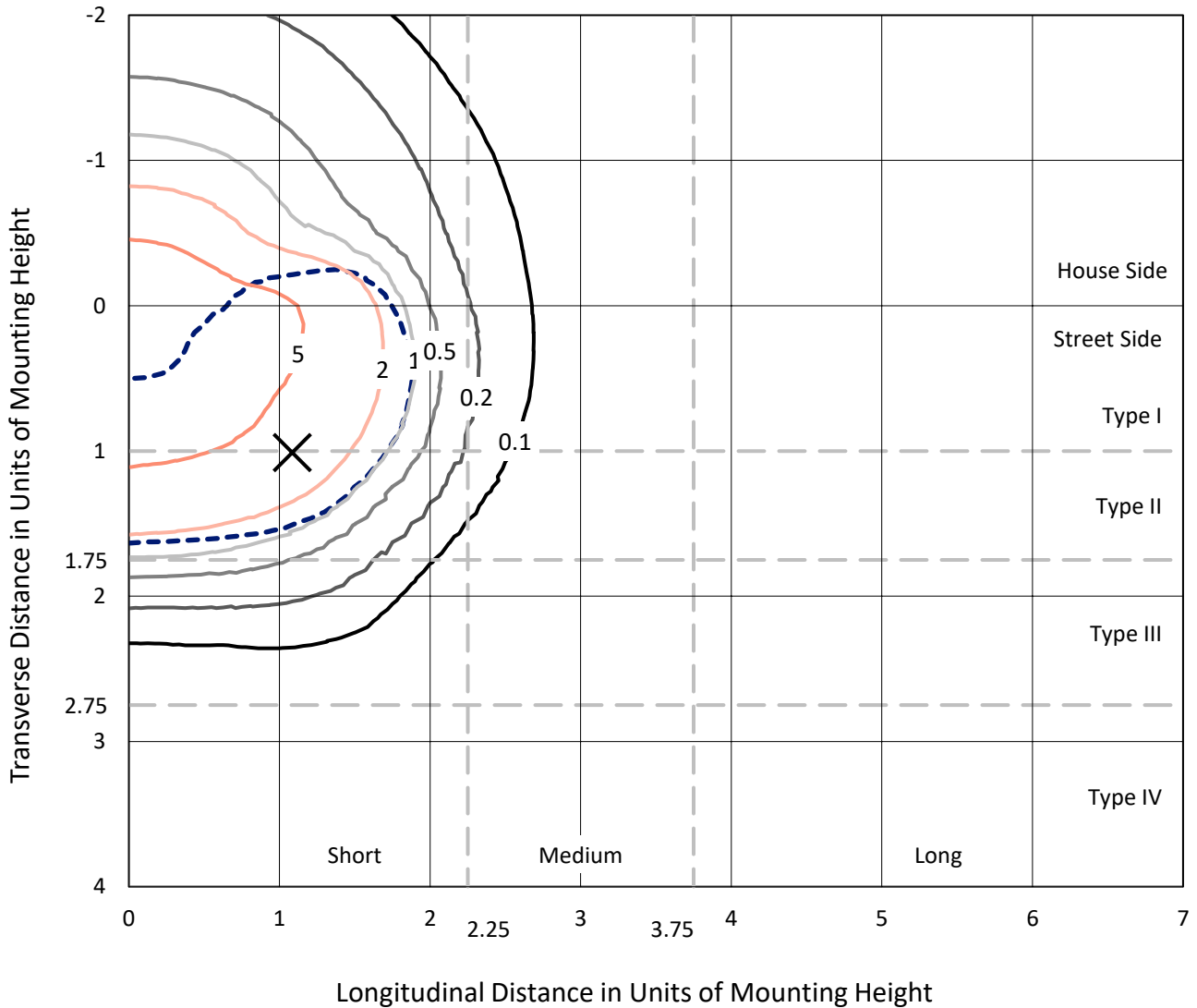
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

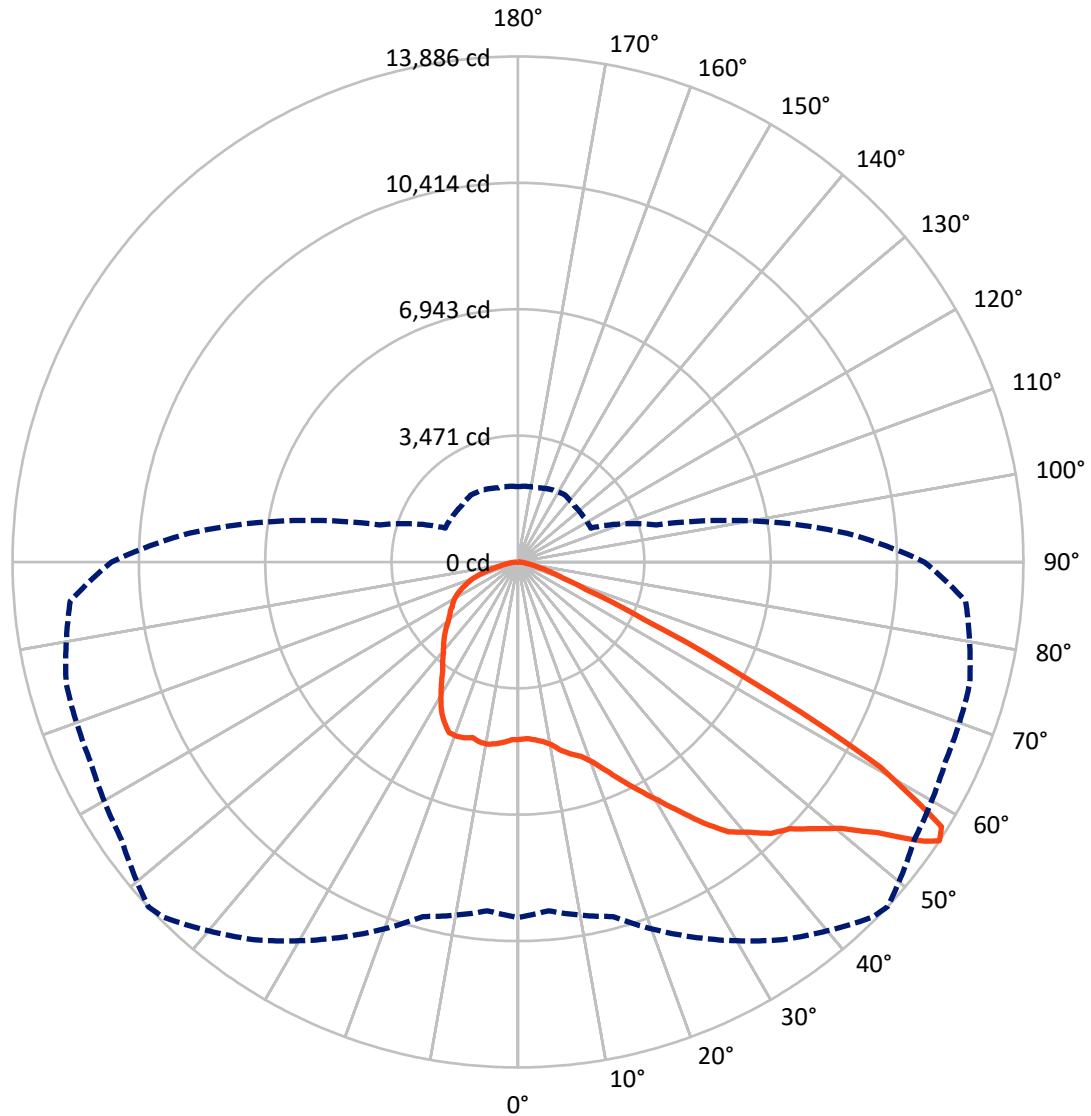
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7694.4	0.0	7694.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16586.6	0.0	16586.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	24281.0	0.0	24281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.2	2.0
10°-20°	1499.1	6.2
20°-30°	2650.1	10.9
30°-40°	3980.3	16.4
40°-50°	5462.6	22.5
50°-60°	6507.9	26.8
60°-70°	2785.0	11.5
70°-80°	788.1	3.2
80°-90°	132.6	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°	24281.0	100.0
0°-180°	24281.0	100.0

Coefficient of Utilization



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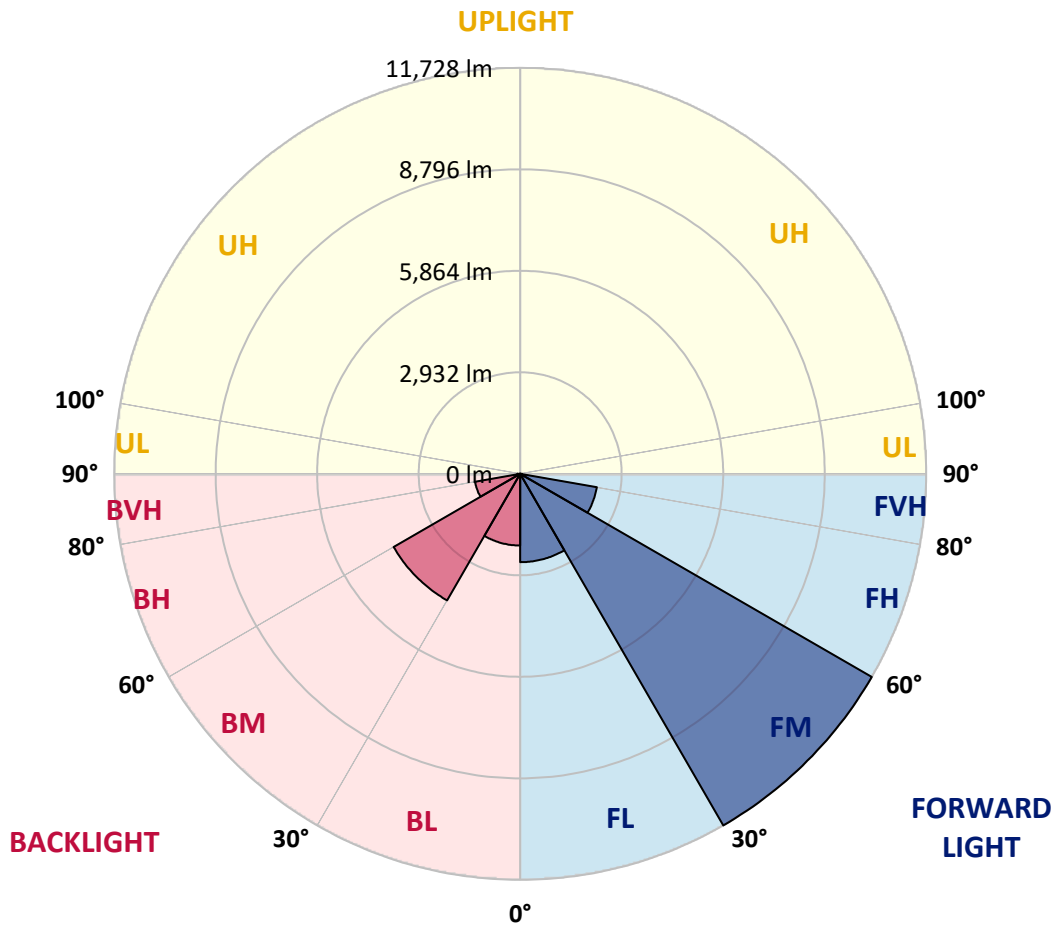
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2552.8	10.5			
FM (30°-60°)	11728.3	48.3			
FH (60°-80°)	2249.3	9.3			G2/5000
FVH (80°-90°)	56.3	0.2			G1/100
BL (0°-30°)	2071.6	8.5	B3/2500		
BM (30°-60°)	4222.5	17.4	B3/5000		
BH (60°-80°)	1323.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	76.3	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°	47°	55°	65°	75°	85°
0°	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3
2.5°	4858.7	4849.4	4843.3	4892.8	4874.2	4877.3	4858.7	4877.3	4889.7	4861.8	4902.1
5°	4849.4	4877.3	4852.5	4868.0	4908.3	4895.9	4908.3	4945.4	4936.2	4926.9	4914.5
7.5°	4936.2	4939.2	4957.8	4964.0	4976.4	4964.0	4982.6	5016.7	5007.4	4954.7	4960.9
10°	5060.0	5066.2	5069.3	5103.4	5125.1	5128.1	5106.5	5075.5	5072.4	5143.6	5094.1
12.5°	5202.5	5187.0	5224.1	5236.5	5261.3	5289.2	5317.0	5252.0	5292.3	5295.4	5236.5
15°	5409.9	5425.4	5382.1	5382.1	5391.4	5394.5	5471.9	5440.9	5434.7	5400.7	5425.4
17.5°	5719.6	5614.3	5611.2	5567.9	5561.7	5586.5	5614.3	5639.1	5722.7	5654.6	5521.4
20°	5945.7	5970.5	5880.6	5828.0	5837.3	5893.0	5865.2	5976.6	6035.5	5924.0	5793.9
22.5°	6345.2	6261.5	6283.2	6165.5	6174.8	6233.7	6230.6	6345.2	6379.2	6202.7	6013.8
25°	6614.6	6592.9	6611.5	6518.6	6531.0	6577.4	6651.7	6840.6	6784.9	6589.8	6153.2
27.5°	7007.9	6964.5	6949.0	6914.9	6902.6	7026.4	7113.1	7314.4	7274.2	6989.3	6400.9
30°	7410.4	7382.6	7398.0	7258.7	7308.2	7571.5	7596.2	7871.8	7853.3	7351.6	6676.5
32.5°	7689.1	7704.6	7732.5	7655.1	7874.9	8085.5	8169.1	8481.9	8497.4	7974.0	7209.1
35°	8138.1	8085.5	8101.0	8190.8	8293.0	8677.0	8813.2	9020.7	9150.8	8627.4	7720.1
37.5°	8419.9	8475.7	8410.7	8553.1	8819.4	9280.8	9404.7	9618.4	9754.6	9271.5	8416.9
40°	8859.7	8769.9	8816.3	8918.5	9191.0	9791.8	9757.7	9977.6	10020.9	9819.7	9067.2
42.5°	9333.5	9290.1	9225.1	9457.3	9686.5	10123.1	10191.3	10089.1	10308.9	10355.4	9996.2
45°	9900.2	9952.8	9962.1	9968.3	10169.6	10550.5	10457.6	10367.8	10621.7	10959.2	10572.2
47.5°	10426.6	10259.4	10380.2	10547.4	10832.3	10835.4	10943.8	10730.1	10999.5	11299.9	11092.4
50°	10603.1	10522.6	10683.6	10999.5	11439.2	11485.7	11498.1	11194.6	11334.0	11572.4	11272.0
52.5°	10535.0	10507.1	10919.0	11408.3	12052.4	12287.7	12349.7	11975.0	12052.4	11944.0	11668.4
55°	10209.8	10293.5	10708.4	11705.6	12693.4	13421.1	13538.8	13065.0	12572.6	12656.2	12352.8
56°	9763.9	9618.4	10082.9	11368.0	12665.5	13789.6	13885.6	13294.2	12959.7	12851.3	12346.6
57.5°	8283.7	8094.8	8704.8	10228.4	11962.6	13650.3	13721.5	13390.2	12894.7	12674.8	11445.4
60°	4849.4	4942.3	5716.5	7054.3	9228.2	11191.5	11429.9	11671.5	11340.1	10355.4	8519.0
62.5°	2341.1	2282.3	2836.6	4044.3	5623.6	7144.1	7072.9	7751.1	8122.7	7357.8	5379.0
65°	1226.3	1220.1	1548.4	2208.0	3090.5	3753.2	3818.2	4183.7	4694.6	3790.4	2731.3
67.5°	901.1	925.9	1090.0	1551.5	1988.1	2028.3	2019.1	2201.8	2251.3	1904.5	1678.4
70°	706.0	718.4	839.2	1179.8	1480.2	1325.4	1297.5	1319.2	1464.7	1526.7	1452.4
72.5°	511.0	523.3	625.5	795.9	925.9	904.2	922.8	1043.6	1223.2	1288.2	1210.8
75°	340.6	349.9	405.7	486.2	548.1	591.5	625.5	764.9	932.1	969.3	932.1
77.5°	235.3	244.6	281.8	343.7	349.9	377.8	390.2	455.2	557.4	603.9	579.1
80°	133.2	133.2	151.7	176.5	216.8	253.9	260.1	312.8	359.2	390.2	396.4
82.5°	61.9	65.0	80.5	108.4	142.4	176.5	182.7	216.8	250.8	281.8	291.1
85°	31.0	34.1	46.5	65.0	86.7	105.3	102.2	105.3	111.5	105.3	108.4
87.5°	9.3	9.3	12.4	15.5	12.4	15.5	15.5	18.6	21.7	24.8	27.9
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°	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3	4877.3
2.5°	4905.2	4914.5	4852.5	4911.4	4889.7	4886.6	4930.0	4923.8	4939.2	4933.1	4895.9
5°	4908.3	4886.6	4951.6	4892.8	4920.7	4979.5	4939.2	5032.2	4985.7	5016.7	4948.5
7.5°	5004.3	5010.5	4998.1	5022.9	5010.5	5038.3	5016.7	5038.3	5001.2	5004.3	5066.2
10°	5087.9	5069.3	5091.0	5060.0	5081.7	5072.4	5022.9	5007.4	5019.8	5004.3	5044.5
12.5°	5242.7	5208.7	5193.2	5156.0	5131.2	5038.3	4960.9	4917.6	4976.4	4985.7	4967.1
15°	5400.7	5403.8	5332.5	5248.9	5094.1	4954.7	4973.3	4988.8	4988.8	5013.6	4967.1
17.5°	5499.8	5499.8	5434.7	5267.5	5109.6	5029.1	5010.5	4960.9	4917.6	4911.4	4908.3
20°	5673.2	5620.5	5471.9	5264.4	5103.4	5066.2	4926.9	4809.2	4719.4	4688.4	4685.3
22.5°	5871.4	5738.2	5530.7	5270.6	5094.1	5041.4	4781.3	4604.8	4443.8	4375.6	4384.9
25°	6054.1	5840.4	5564.8	5242.7	5060.0	4806.1	4515.0	4270.4	4103.1	4047.4	4019.5
27.5°	6181.0	5948.8	5564.8	5267.5	4933.1	4542.9	4245.6	3932.8	3787.3	3750.1	3756.3
30°	6351.3	6085.0	5660.8	5214.9	4679.1	4202.2	3846.1	3641.7	3555.0	3524.1	3545.7
32.5°	6750.8	6441.2	5793.9	5087.9	4378.7	3861.6	3573.6	3459.0	3332.1	3270.1	3248.4
35°	7184.4	6778.7	5924.0	4874.2	4041.2	3551.9	3372.3	3267.0	3115.3	3047.2	3059.5
37.5°	7797.5	7212.2	5933.3	4521.2	3675.8	3378.5	3214.4	3050.3	2926.4	2821.1	2790.1
40°	8624.3	7803.7	5911.6	4149.6	3381.6	3174.1	3053.4	2849.0	2709.6	2635.3	2650.8
42.5°	9352.1	8497.4	5821.8	3728.4	3115.3	3034.8	2898.5	2697.2	2561.0	2483.6	2477.4
45°	9965.2	9008.3	5651.5	3369.2	2892.3	2879.9	2722.0	2567.2	2458.8	2387.6	2418.5
47.5°	10531.9	9420.2	5394.5	3010.0	2687.9	2712.7	2561.0	2465.0	2396.9	2331.8	2328.7
50°	10736.3	9414.0	5168.4	2712.7	2523.8	2511.4	2505.2	2403.0	2331.8	2276.1	2300.9
52.5°	11076.9	9519.3	4923.8	2508.3	2375.2	2378.3	2399.9	2325.6	2245.1	2211.0	2242.0
55°	11566.2	9534.8	4384.9	2269.9	2251.3	2273.0	2273.0	2223.4	2155.3	2127.4	2112.0
56°	11166.7	9073.4	3932.8	2208.0	2189.4	2189.4	2248.2	2192.5	2108.9	2087.2	2068.6
57.5°	10299.7	7949.2	3291.8	2133.6	2105.8	2149.1	2180.1	2121.2	2043.8	2012.9	2031.4
60°	7103.8	5379.0	2474.3	1972.6	1972.6	2043.8	2068.6	1981.9	1947.8	1944.7	1920.0
62.5°	4146.5	3133.9	1935.4	1827.1	1833.3	1892.1	1910.7	1861.1	1817.8	1870.4	1895.2
65°	2198.7	1870.4	1659.8	1672.2	1675.3	1721.8	1802.3	1799.2	1796.1	1811.6	1814.7
67.5°	1591.7	1554.5	1508.1	1495.7	1501.9	1536.0	1616.5	1678.4	1675.3	1638.2	1610.3
70°	1418.3	1365.6	1337.8	1340.9	1316.1	1356.4	1421.4	1461.6	1390.4	1347.1	1328.5
72.5°	1179.8	1164.4	1145.8	1148.9	1099.3	1090.0	1015.7	1015.7	997.1	984.8	1006.4
75°	901.1	894.9	904.2	888.8	836.1	780.4	737.0	696.8	634.8	610.1	597.7
77.5°	569.8	588.4	610.1	576.0	554.3	514.1	470.7	430.4	380.9	353.0	353.0
80°	387.1	402.6	418.1	411.9	387.1	349.9	315.9	272.5	238.4	216.8	213.7
82.5°	294.2	306.6	328.3	303.5	278.7	247.7	219.9	188.9	157.9	133.2	133.2
85°	105.3	120.8	133.2	145.5	154.8	157.9	136.3	111.5	89.8	71.2	68.1
87.5°	27.9	31.0	34.1	31.0	31.0	31.0	34.1	31.0	27.9	21.7	21.7
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)