

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: P455231

Luminaire Tested: **GALN-SA6B-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25383 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

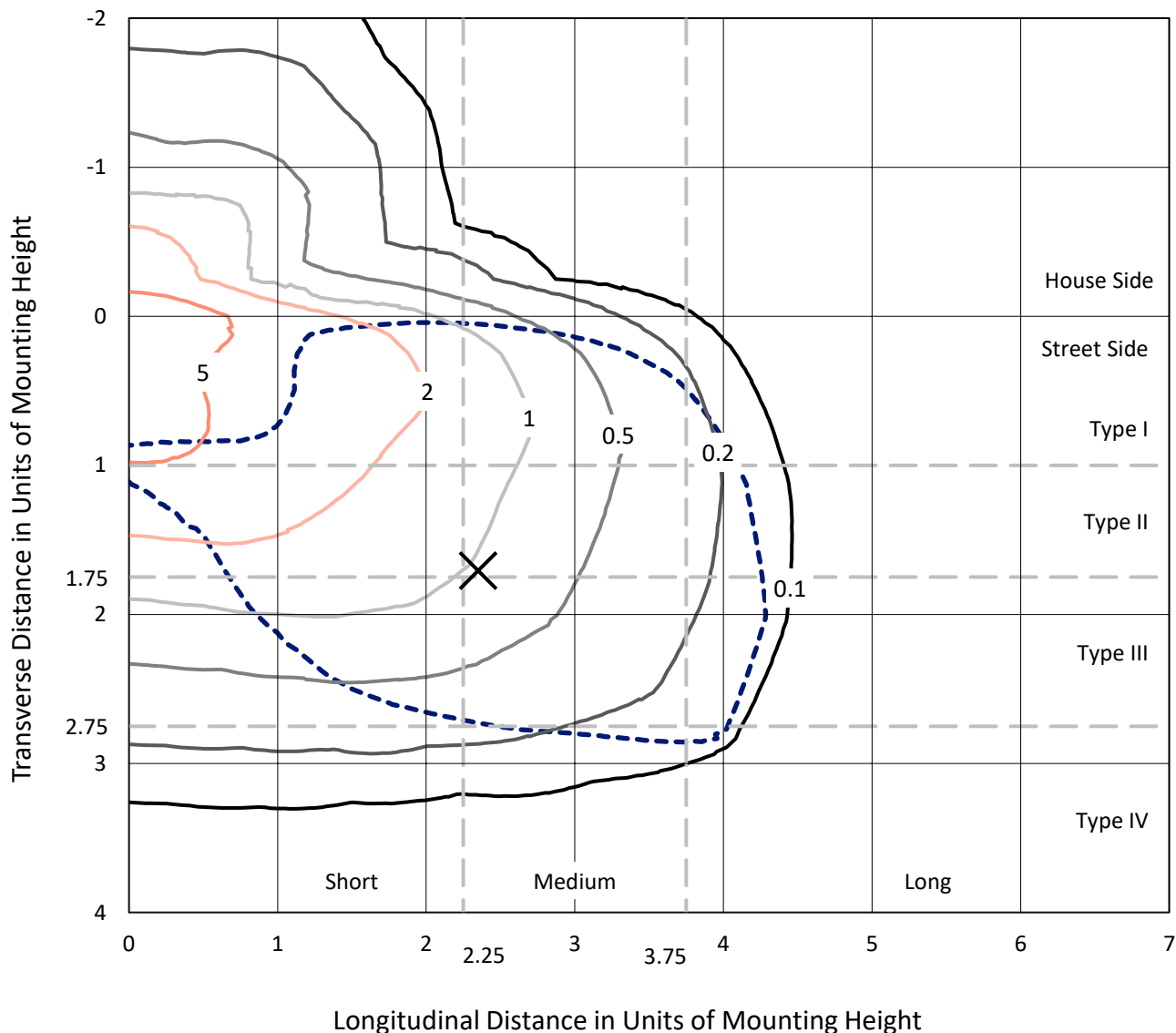
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

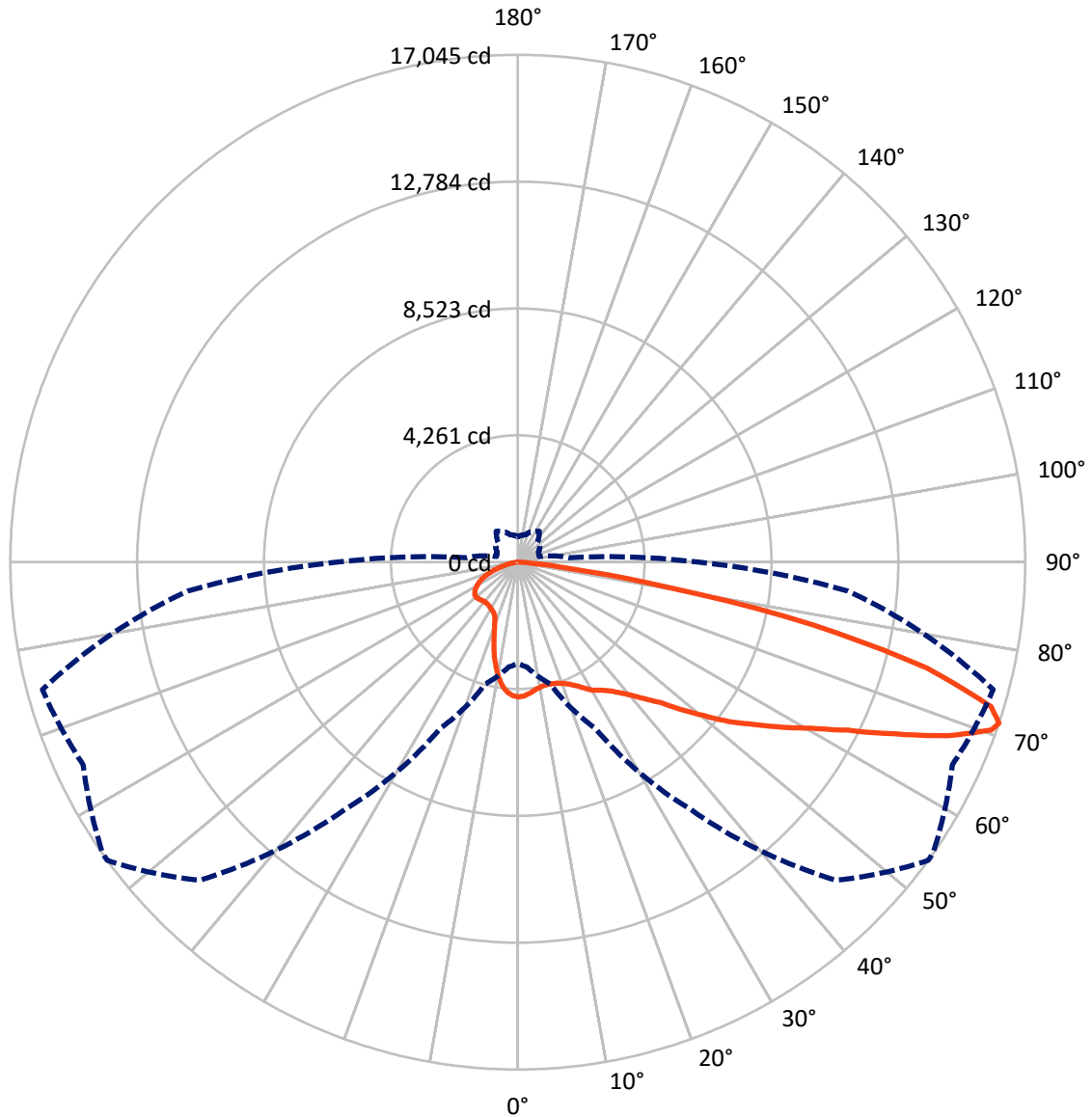
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4582.7	0.0	4582.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20800.3	0.0	20800.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	25383.0	0.0	25383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.6	1.6
10°-20°	1065.6	4.2
20°-30°	1774.3	7.0
30°-40°	2623.7	10.3
40°-50°	3695.5	14.6
50°-60°	4948.5	19.5
60°-70°	6237.2	24.6
70°-80°	4260.0	16.8
80°-90°	374.6	1.5
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°	25383.0	100.0
0°-180°	25383.0	100.0

Coefficient of Utilization



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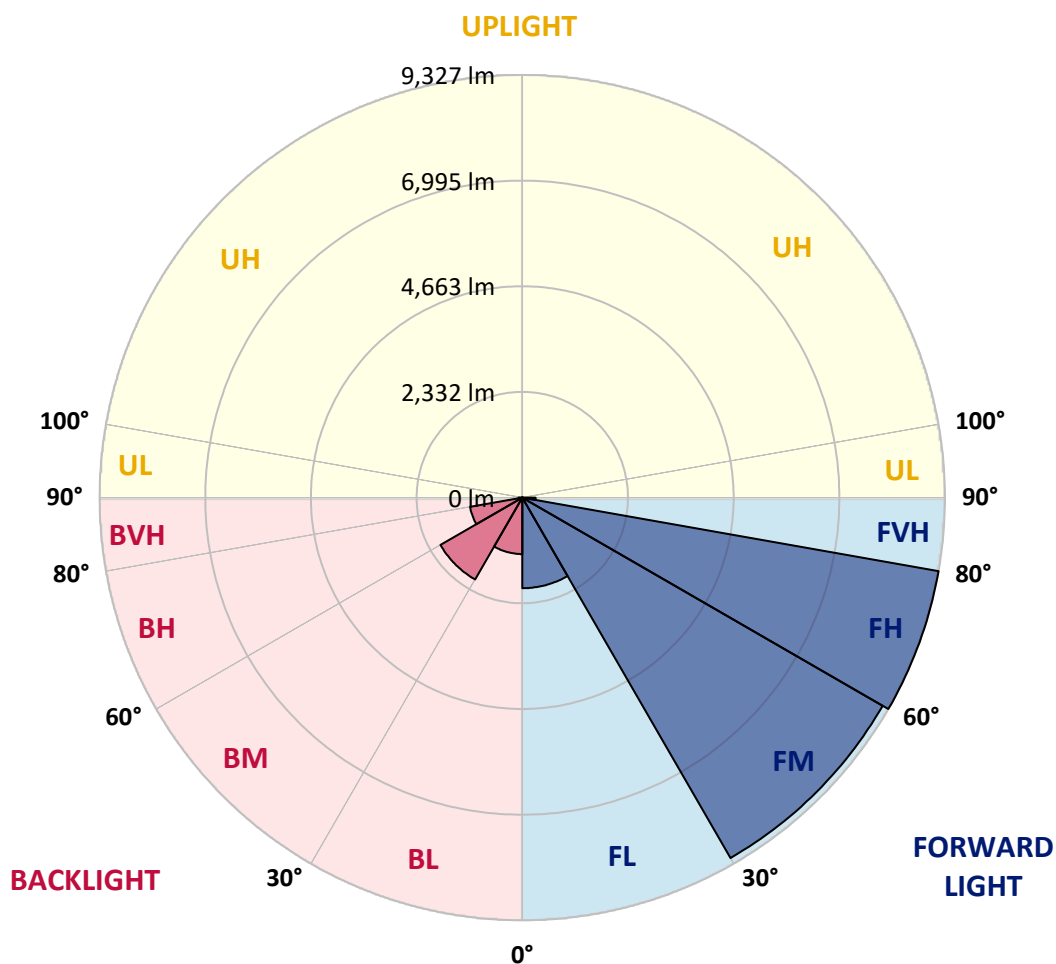
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1998.1	7.9			
FM	(30°-60°)	9182.7	36.2			
FH	(60°-80°)	9326.7	36.7			G4/12000
FVH	(80°-90°)	292.8	1.2			G3/500
BL	(0°-30°)	1245.5	4.9	B3/2500		
BM	(30°-60°)	2085.0	8.2	B2/2500		
BH	(60°-80°)	1170.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	81.8	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7
2.5°	4375.1	4395.7	4401.2	4414.9	4443.7	4467.0	4490.3	4487.6	4520.5	4534.2	4546.5
5°	4180.4	4185.9	4206.5	4233.9	4284.6	4349.1	4412.2	4413.5	4494.4	4558.9	4590.4
7.5°	4037.9	4055.7	4069.4	4098.2	4151.7	4221.6	4321.7	4329.9	4473.9	4601.4	4668.6
10°	3944.6	3965.2	3980.3	4015.9	4069.4	4147.5	4255.9	4270.9	4458.8	4668.6	4786.5
12.5°	3859.6	3880.2	3893.9	3940.5	4010.4	4106.4	4228.4	4246.3	4464.3	4746.7	4915.3
15°	3911.7	3928.2	3922.7	3936.4	3983.0	4092.7	4239.4	4257.2	4484.8	4822.1	5042.9
17.5°	4143.4	4157.1	4111.9	4059.8	4037.9	4118.7	4273.7	4292.9	4526.0	4900.3	5173.1
20°	4484.8	4521.8	4423.1	4306.6	4201.0	4212.0	4345.0	4365.5	4583.5	4978.4	5306.1
22.5°	4929.1	4956.5	4835.8	4643.9	4449.2	4349.1	4451.9	4464.3	4669.9	5079.9	5451.4
25°	5451.4	5467.9	5300.6	5053.8	4772.8	4583.5	4598.6	4620.6	4812.5	5195.1	5580.3
27.5°	5958.7	6010.8	5817.5	5515.9	5145.7	4830.3	4800.2	4813.9	4967.5	5259.5	5669.4
30°	6560.7	6556.5	6352.2	6002.6	5528.2	5099.1	4990.8	4988.0	5051.1	5291.0	5733.9
32.5°	7040.5	7096.8	6896.6	6515.4	5965.6	5377.4	5122.4	5116.9	5115.5	5345.9	5829.9
35°	7586.2	7594.5	7410.7	7026.8	6438.6	5727.0	5306.1	5278.7	5247.2	5463.8	5960.1
37.5°	8074.3	8112.7	7944.1	7513.6	6903.4	6090.4	5558.4	5540.6	5444.6	5668.1	6168.5
40°	8455.5	8484.3	8382.8	7972.9	7361.4	6482.5	5879.2	5846.3	5729.8	6002.6	6446.9
42.5°	8580.3	8639.2	8679.0	8477.4	7887.9	6947.3	6274.1	6233.0	6143.8	6509.9	6767.7
45°	8589.9	8683.1	8892.9	8902.5	8417.1	7504.0	6734.8	6706.0	6699.1	7159.8	7218.8
47.5°	8517.2	8611.8	8964.2	9154.8	8888.8	8066.1	7399.8	7354.5	7358.6	7963.3	7724.7
50°	8341.7	8454.1	8881.9	9316.5	9257.6	8650.2	8101.8	8086.7	8171.7	8880.5	8249.8
52.5°	8011.3	8147.0	8796.9	9418.0	9531.8	9153.4	8899.7	8857.2	9072.5	9875.9	8824.3
55°	7096.8	7301.0	8485.7	9474.2	9792.3	9634.6	9618.2	9695.0	9980.1	10961.8	9456.4
57.5°	6619.6	6773.2	7809.7	9483.8	10121.4	10194.0	10457.3	10476.5	10975.6	12114.9	10170.7
60°	6359.1	6494.8	7439.5	9420.7	10580.7	10886.4	11315.6	11384.1	11947.7	13364.0	10911.1
62.5°	6131.5	6248.0	7217.4	9202.7	11099.0	11913.4	12427.5	12460.4	13051.4	14743.3	11641.9
65°	5595.4	5728.4	6770.4	8984.7	11545.9	13196.7	13902.8	13864.4	14226.4	15933.4	12099.8
67.5°	4872.8	5041.5	5935.4	8232.0	11766.7	14599.3	15564.6	15516.6	15386.3	16713.6	12231.5
70°	3950.1	4040.6	4867.4	6930.8	10885.1	15335.6	16876.7	16826.0	16104.8	16816.4	11609.0
71°	3398.9	3540.1	4238.0	6156.2	10151.5	15110.8	17045.4	17031.7	16106.2	16532.6	11140.1
72.5°	2653.1	2739.4	3356.4	4770.0	8628.3	13832.9	16628.6	16680.7	15756.5	15744.2	10173.5
75°	1678.2	1716.6	2106.0	2808.0	4734.4	9796.4	14194.9	14336.1	13990.6	12886.9	7565.7
77.5°	974.8	1024.2	1261.4	1654.9	2045.7	5317.1	10157.0	10310.6	9721.0	7095.4	3097.3
80°	567.6	622.5	830.9	961.1	939.2	1973.0	5171.7	5433.6	4209.2	1792.0	869.3
82.5°	315.4	352.4	584.1	585.5	500.4	644.4	1627.5	1702.9	1201.1	722.6	355.1
85°	229.0	259.1	377.0	341.4	239.9	277.0	566.3	593.7	485.4	304.4	115.2
87.5°	80.9	115.2	207.0	164.5	65.8	57.6	163.2	133.0	123.4	85.0	26.1
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°	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7	4528.7
2.5°	4553.4	4556.1	4542.4	4517.7	4493.1	4461.5	4425.9	4398.4	4386.1	4384.7	4383.4
5°	4602.7	4609.6	4557.5	4480.7	4395.7	4291.5	4202.4	4100.9	4074.9	4033.7	4046.1
7.5°	4682.3	4678.2	4575.3	4412.2	4213.4	3992.6	3806.1	3697.8	3585.4	3553.9	3555.2
10°	4796.1	4770.0	4575.3	4272.3	3940.5	3612.8	3352.3	3187.8	3098.7	3024.6	2997.2
12.5°	4916.7	4850.9	4531.4	4076.2	3589.5	3187.8	2908.1	2686.0	2628.4	2568.0	2569.4
15°	5031.9	4922.2	4445.1	3800.7	3211.1	2733.9	2462.5	2329.5	2311.7	2318.5	2317.1
17.5°	5136.1	4972.9	4313.4	3493.5	2769.6	2344.6	2200.6	2210.2	2258.2	2292.5	2296.6
20°	5241.7	5003.1	4117.4	3082.2	2352.8	2108.7	2114.2	2189.6	2262.3	2308.9	2315.8
22.5°	5341.8	5016.8	3887.0	2684.6	2051.1	2008.6	2089.5	2170.4	2241.7	2287.0	2293.8
25°	5407.6	4985.3	3560.7	2269.2	1903.1	1973.0	2058.0	2126.6	2186.9	2233.5	2244.5
27.5°	5425.4	4883.8	3156.2	1933.2	1834.5	1938.7	2016.9	2067.6	2114.2	2158.1	2166.3
30°	5415.8	4734.4	2712.0	1735.8	1794.8	1899.0	1959.3	1996.3	2052.5	2086.8	2093.7
32.5°	5400.7	4560.2	2248.6	1630.2	1761.8	1861.9	1897.6	1930.5	1929.1	1915.4	1925.0
35°	5406.2	4351.8	1872.9	1567.2	1733.1	1834.5	1864.7	1823.5	1705.6	1700.1	1694.7
37.5°	5435.0	4146.2	1600.1	1523.3	1718.0	1830.4	1846.9	1657.6	1553.4	1505.5	1493.1
40°	5509.0	3906.2	1420.4	1490.4	1716.6	1861.9	1766.0	1574.0	1373.8	1280.6	1273.7
42.5°	5607.7	3670.4	1310.8	1469.8	1733.1	1909.9	1733.1	1456.1	1238.1	1183.2	1175.0
45°	5754.5	3400.3	1250.4	1460.2	1757.7	1927.7	1722.1	1369.7	1183.2	1139.4	1139.4
47.5°	5920.4	3142.5	1217.5	1453.4	1789.3	1915.4	1624.7	1342.3	1157.2	1162.7	1188.7
50°	6084.9	2919.0	1192.8	1438.3	1816.7	1908.6	1585.0	1340.9	1164.1	1234.0	1280.6
52.5°	6275.5	2761.4	1162.7	1413.6	1816.7	1864.7	1572.6	1368.3	1183.2	1203.8	1224.4
55°	6505.8	2712.0	1124.3	1360.1	1783.8	1755.0	1565.8	1408.1	1197.0	1149.0	1157.2
57.5°	6810.2	2791.5	1087.3	1292.9	1708.4	1641.2	1563.0	1419.1	1165.4	1125.7	1117.4
60°	7163.9	2949.2	1076.3	1224.4	1605.5	1543.8	1546.6	1387.5	1121.5	1080.4	1087.3
62.5°	7412.1	3043.8	1069.4	1172.3	1493.1	1436.9	1506.8	1349.2	1102.4	1066.7	1073.6
65°	7412.1	2928.6	1006.4	1092.8	1347.8	1308.0	1458.8	1301.2	1077.7	1036.5	1029.7
67.5°	7131.0	2592.7	910.4	973.5	1187.4	1161.3	1391.7	1243.6	1040.7	1009.1	992.7
70°	6398.9	1966.1	789.7	833.6	984.4	1007.7	1305.3	1165.4	979.0	940.6	915.9
71°	6076.7	1712.5	739.0	762.3	906.3	940.6	1264.1	1132.5	951.5	896.7	852.8
72.5°	5455.6	1442.4	662.2	671.8	774.7	836.4	1177.8	1069.4	899.4	821.3	771.9
75°	4144.8	1053.0	533.4	527.9	573.1	663.6	996.8	952.9	788.4	682.8	654.0
77.5°	1790.6	573.1	399.0	403.1	389.4	503.2	784.3	818.5	675.9	555.3	529.2
80°	543.0	330.4	272.8	278.3	260.5	337.3	552.5	641.7	543.0	431.9	396.2
82.5°	278.3	197.4	186.5	183.7	165.9	190.6	334.5	438.7	388.0	270.1	238.6
85°	120.7	105.6	91.9	89.1	78.2	68.6	119.3	219.4	205.7	150.8	144.0
87.5°	30.2	27.4	17.8	16.5	9.6	1.4	0.0	0.0	0.0	0.0	0.0
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)