

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: P458232

Luminaire Tested: **GALN-SA9C-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46439 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

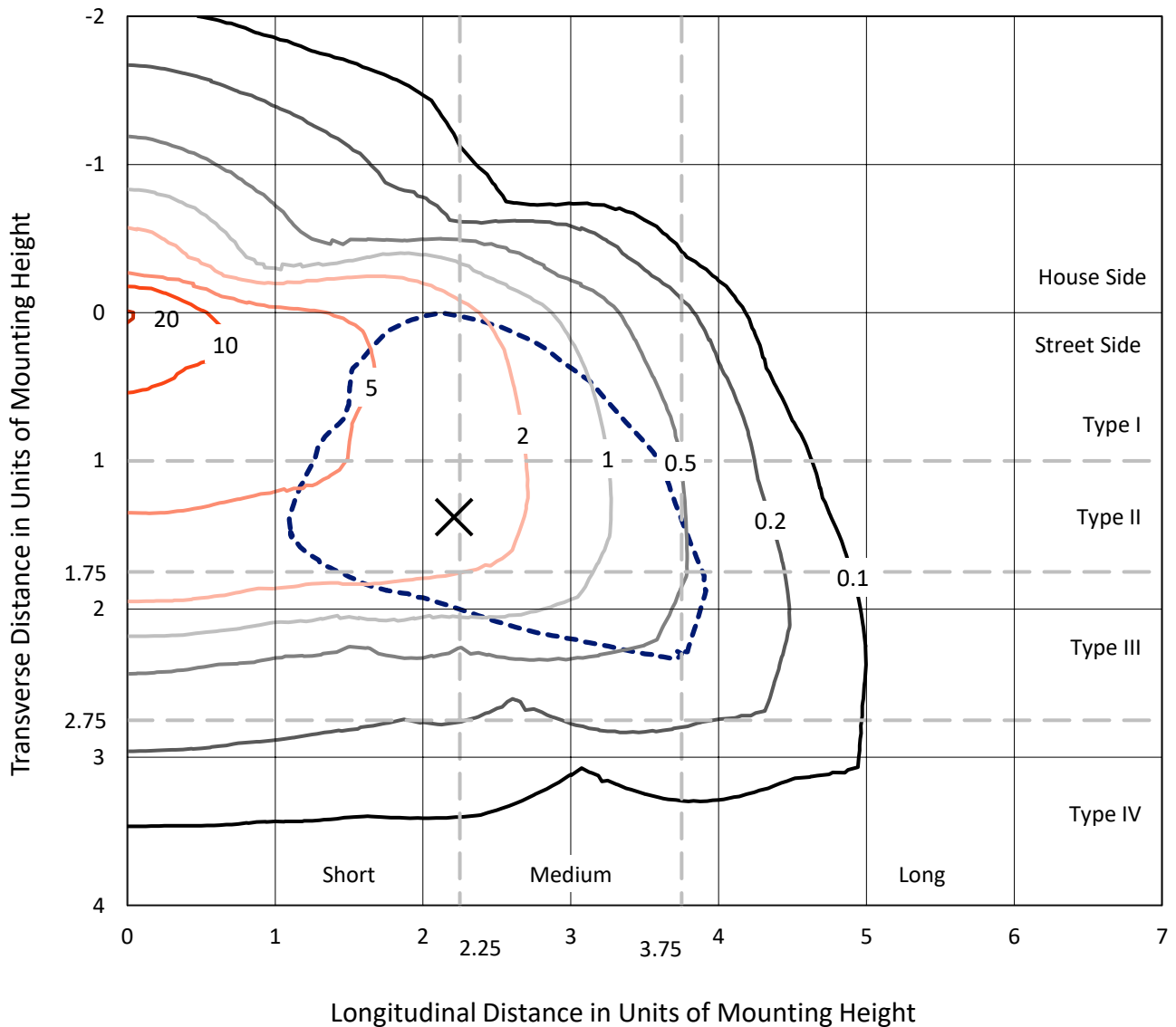
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

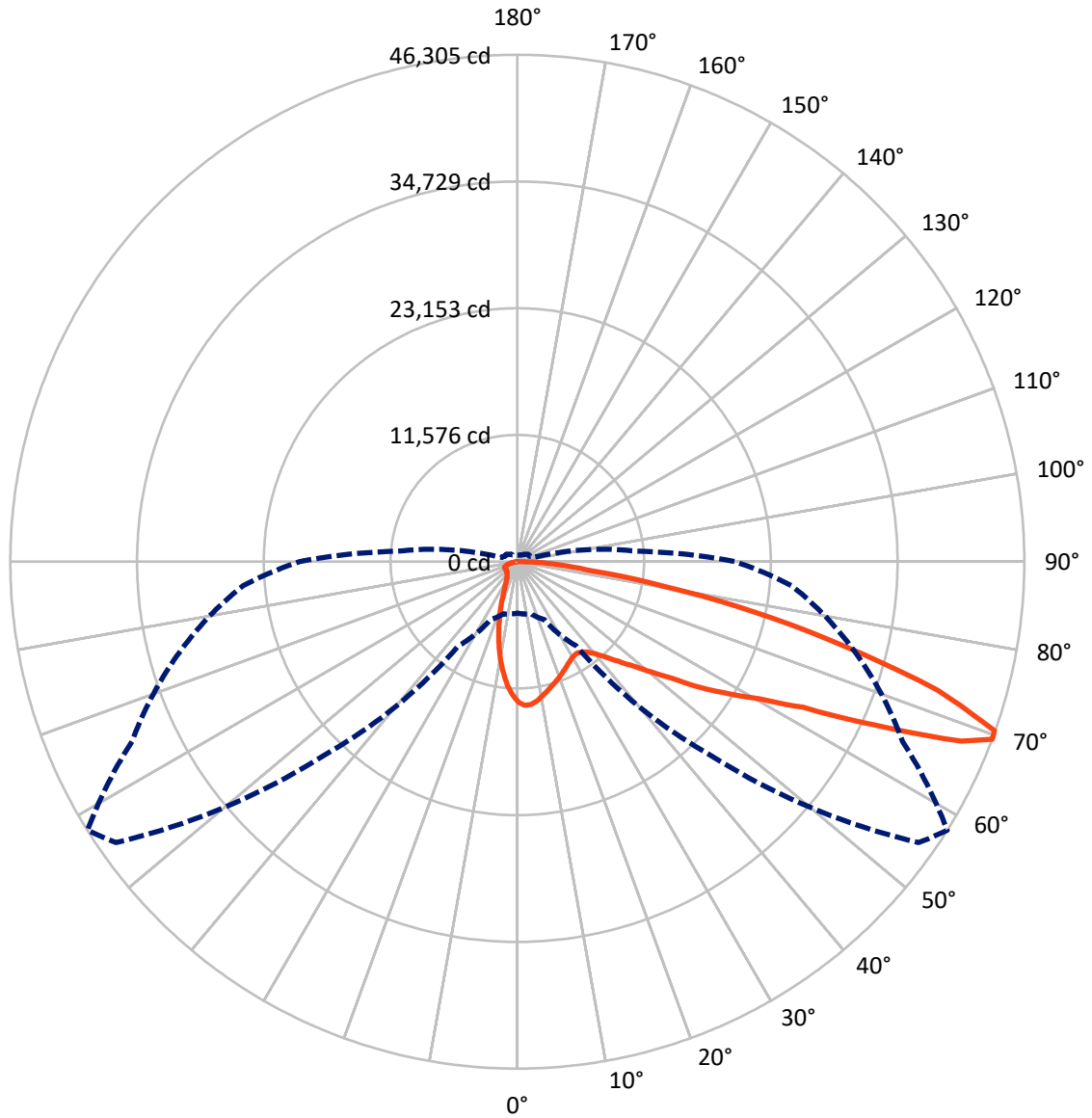
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6805.6	0.0	6805.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	39633.4	0.0	39633.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	46439.0	0.0	46439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.8	2.3
10°-20°	2393.1	5.2
20°-30°	3091.9	6.7
30°-40°	4015.8	8.6
40°-50°	5838.4	12.6
50°-60°	9316.1	20.1
60°-70°	12445.2	26.8
70°-80°	7174.1	15.4
80°-90°	1074.5	2.3
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°	46439.0	100.0
0°-180°	46439.0	100.0

Coefficient of Utilization



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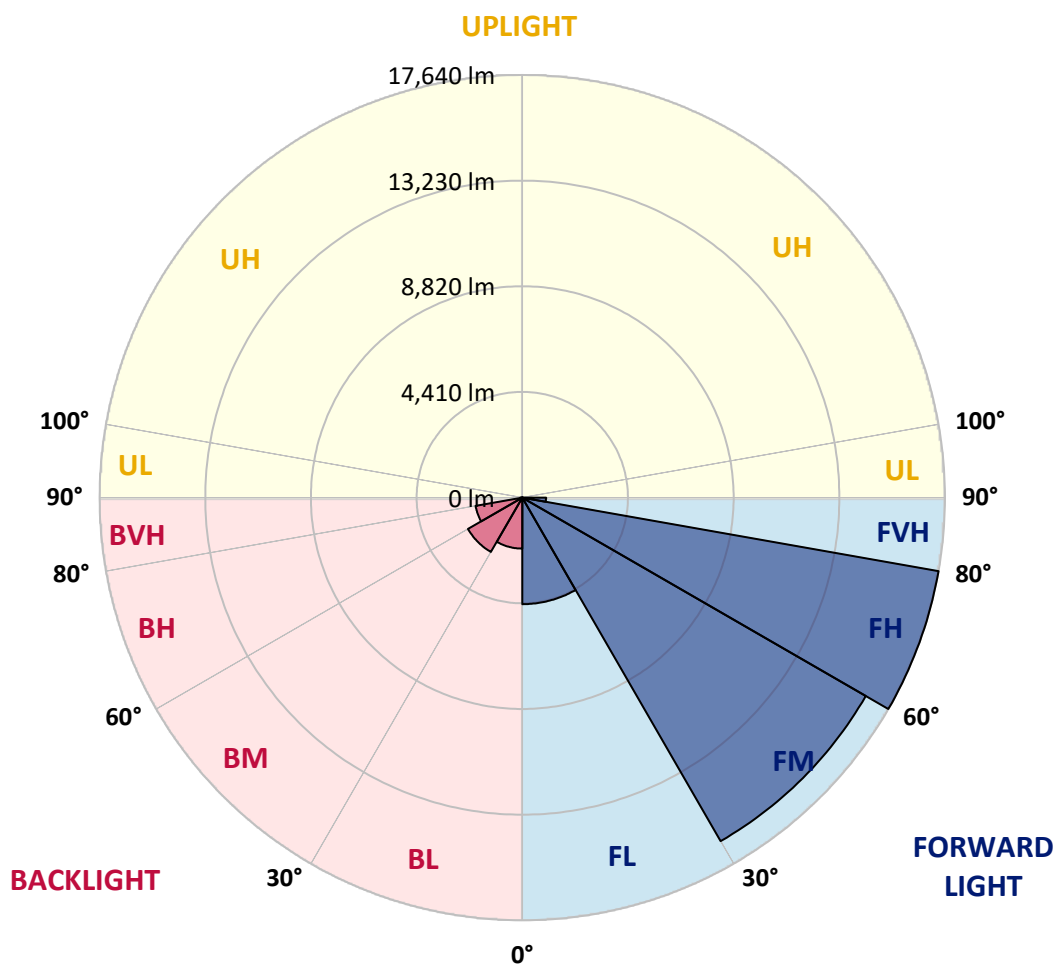
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4447.7	9.6			
FM	(30°-60°)	16553.1	35.6			
FH	(60°-80°)	17640.4	38.0			G5
FVH	(80°-90°)	992.2	2.1			G5
BL	(0°-30°)	2127.2	4.6	B3/2500		
BM	(30°-60°)	2617.2	5.6	B3/5000		
BH	(60°-80°)	1978.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	82.3	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0
2.5°	13309.6	13345.8	13335.5	13322.5	13301.8	13244.8	13151.6	13136.0	13076.5	12949.6	12791.6
5°	13105.0	13136.0	13138.6	13156.8	13182.7	13172.3	13105.0	13097.2	13009.1	12838.2	12574.0
7.5°	12403.1	12444.5	12535.2	12636.2	12726.8	12812.3	12833.0	12846.0	12791.6	12594.7	12242.5
10°	11613.2	11654.6	11696.0	11846.3	12069.0	12281.4	12457.5	12480.8	12493.7	12312.4	11882.5
12.5°	10737.8	10823.2	10911.3	11134.0	11431.9	11766.0	12076.8	12126.0	12214.0	12076.8	11571.7
15°	9994.5	10082.5	10209.4	10408.9	10768.9	11250.6	11688.3	11768.6	11942.1	11872.2	11281.7
17.5°	9479.1	9510.2	9598.2	9826.1	10214.6	10722.2	11307.6	11468.1	11745.3	11727.1	11033.0
20°	9072.5	9111.3	9165.7	9305.6	9709.6	10245.7	10952.7	11159.9	11535.5	11597.6	10787.0
22.5°	8901.5	8930.0	8922.3	8997.4	9271.9	9810.6	10592.7	10838.8	11349.0	11509.6	10559.1
25°	8911.9	8937.8	8898.9	8880.8	9044.0	9427.3	10217.2	10530.6	11198.8	11450.0	10351.9
27.5°	9085.4	9103.5	9031.0	8958.5	8971.5	9189.0	9906.4	10253.5	11071.9	11475.9	10178.4
30°	9318.5	9352.2	9305.6	9217.5	9121.7	9132.0	9707.0	10048.9	11012.3	11566.6	10095.5
32.5°	9618.9	9650.0	9629.3	9559.4	9435.1	9297.8	9657.8	9973.8	11017.5	11750.4	10077.4
35°	9934.9	9997.1	10030.7	10025.6	9924.5	9686.3	9852.0	10113.6	11141.8	12058.6	10183.5
37.5°	10292.3	10344.1	10489.1	10582.4	10489.1	10212.0	10289.7	10471.0	11416.3	12504.1	10416.6
40°	10639.4	10717.1	10929.4	11219.5	11183.2	10939.8	10957.9	11077.1	11900.7	13167.1	10872.5
42.5°	11002.0	11095.2	11465.5	11895.5	11980.9	11791.9	11841.1	11947.3	12589.6	14086.5	11654.6
45°	11468.1	11579.5	12035.3	12571.4	12908.1	12791.6	12931.4	12983.2	13511.6	15283.1	12685.4
47.5°	12069.0	12198.5	12760.5	13428.7	13905.2	14011.4	14254.9	14223.8	14653.7	16699.8	14021.8
50°	13081.7	13154.2	13685.1	14366.2	15021.5	15500.6	15764.8	15814.0	16070.4	18077.6	15516.2
52.5°	14286.0	14350.7	14734.0	15329.7	16150.7	17165.9	17818.6	17658.0	17720.2	19755.9	17264.4
55°	15640.5	15749.3	15992.7	16389.0	17453.4	18947.8	20258.3	20297.2	19608.2	21361.6	18940.0
57.5°	16689.4	16873.3	17290.3	17854.9	19204.2	20929.1	22690.2	22716.1	21835.6	23076.1	20789.2
60°	16161.1	16378.6	17331.7	18706.9	21501.5	24386.6	25596.1	25448.5	24003.3	25028.9	23045.0
62.5°	13881.9	13920.8	15306.4	17456.0	22208.5	29012.2	29921.3	29297.1	26896.3	27504.9	25337.1
65°	8984.4	9238.2	10336.3	13348.4	19885.4	31578.8	37499.4	36056.8	30952.1	30314.9	27256.2
67.5°	5671.9	5607.2	6063.0	7622.1	13677.3	29317.8	43966.4	43738.5	36256.2	32089.0	26797.8
69°	4703.3	4775.8	4931.2	5842.8	9411.7	25031.5	44730.4	46305.1	38828.0	31949.2	25132.5
70°	4265.6	4299.3	4462.4	5179.8	7262.1	20965.3	43476.9	46235.1	39838.0	31363.9	23925.6
72.5°	3385.0	3382.4	3662.1	4309.6	5428.5	11968.0	35699.4	40141.1	38708.8	28639.3	19768.8
75°	2571.8	2613.2	2921.4	3646.6	5001.1	6539.5	24912.4	30913.2	30915.8	22620.3	12335.8
77.5°	1854.4	1880.3	2240.3	3061.3	4711.1	5301.6	16593.6	22172.2	20843.6	10364.8	3877.1
80°	1214.7	1230.2	1504.7	2424.2	4247.5	5001.1	9839.1	13571.1	9831.3	2750.5	1282.0
82.5°	665.6	743.3	919.4	1569.5	3408.3	4620.4	5980.1	6868.5	3688.0	1225.0	668.2
85°	334.1	354.8	518.0	916.8	2227.3	3822.7	4164.6	3939.3	1903.6	608.6	347.0
87.5°	98.4	124.3	215.0	354.8	903.9	1991.6	2318.0	2079.7	732.9	220.1	72.5
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°	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0	12833.0
2.5°	12726.8	12680.2	12473.0	12286.5	12115.6	11934.3	11781.5	11646.8	11659.8	11662.4	11525.1
5°	12436.8	12330.6	11936.9	11569.1	11258.4	10864.7	10528.0	10310.4	10201.7	10056.6	10108.4
7.5°	12043.1	11838.5	11292.0	10680.8	10108.4	9598.2	9044.0	8663.3	8419.8	8184.1	8215.2
10°	11636.5	11307.6	10512.5	9704.4	8963.7	8147.9	7440.8	6834.8	6384.1	6215.8	6104.4
12.5°	11219.5	10787.0	9776.9	8702.1	7679.1	6702.7	5700.4	5050.3	4553.1	4288.9	4322.6
15°	10838.8	10313.0	9010.3	7699.8	6371.2	5208.3	4208.6	3589.6	3242.6	3170.1	3211.5
17.5°	10486.6	9797.6	8292.9	6726.0	5174.6	3905.6	3162.3	2812.6	2672.8	2633.9	2631.4
20°	10124.0	9359.9	7487.4	5684.9	4032.5	3027.6	2595.1	2431.9	2406.0	2421.6	2424.2
22.5°	9756.2	8818.7	6658.7	4651.5	3211.5	2476.0	2268.8	2224.7	2245.5	2281.7	2286.9
25°	9416.9	8342.1	5861.0	3745.0	2564.0	2175.5	2074.5	2074.5	2121.1	2175.5	2178.1
27.5°	9137.2	7881.1	5065.9	2973.2	2147.0	1958.0	1924.3	1942.4	2007.2	2048.6	2051.2
30°	8906.7	7451.2	4314.8	2382.7	1888.0	1784.5	1776.7	1807.8	1854.4	1893.2	1895.8
32.5°	8733.2	7073.1	3612.9	2002.0	1709.3	1652.4	1649.8	1673.1	1699.0	1709.3	1719.7
35°	8665.9	6759.7	2970.6	1761.1	1590.2	1553.9	1553.9	1551.4	1561.7	1566.9	1572.1
37.5°	8720.2	6518.8	2473.4	1605.7	1502.1	1476.3	1460.7	1445.2	1440.0	1440.0	1442.6
40°	8950.7	6391.9	2103.0	1504.7	1440.0	1401.1	1372.7	1354.5	1336.4	1341.6	1346.8
42.5°	9440.2	6415.2	1851.8	1437.4	1385.6	1331.2	1289.8	1269.1	1256.1	1271.6	1269.1
45°	10219.8	6648.3	1691.2	1390.8	1331.2	1261.3	1222.4	1201.7	1201.7	1225.0	1232.8
47.5°	11310.2	7093.8	1605.7	1354.5	1289.8	1206.9	1168.1	1152.5	1157.7	1196.5	1199.1
50°	12641.4	7868.2	1590.2	1336.4	1269.1	1168.1	1124.0	1108.5	1121.4	1162.9	1168.1
52.5°	14109.8	8865.3	1665.3	1339.0	1250.9	1144.7	1087.8	1064.5	1077.4	1111.1	1121.4
55°	15850.3	10113.6	1859.6	1349.3	1225.0	1131.8	1061.9	1010.1	1025.6	1048.9	1051.5
57.5°	17627.0	11688.3	2201.4	1351.9	1204.3	1108.5	1017.8	950.5	950.5	966.0	973.8
60°	19797.3	13402.8	2652.1	1354.5	1206.9	1074.8	958.3	883.2	872.8	880.6	883.2
62.5°	21952.1	14837.6	2727.2	1346.8	1232.8	1041.1	893.5	815.8	797.7	795.1	789.9
65°	22902.6	14570.9	2235.1	1310.5	1261.3	1020.4	841.7	751.1	720.0	709.6	709.6
67.5°	21353.8	12325.4	1680.9	1261.3	1243.2	999.7	792.5	696.7	660.4	639.7	639.7
69°	19898.3	10963.1	1509.9	1227.6	1196.5	966.0	761.4	668.2	624.2	600.9	593.1
70°	18774.3	10025.6	1437.4	1199.1	1152.5	927.2	738.1	647.5	598.3	572.4	567.2
72.5°	14982.6	7865.6	1258.7	1090.4	981.6	779.6	655.2	582.7	536.1	507.6	499.9
75°	8634.8	4263.0	1043.7	947.9	789.9	606.0	554.2	507.6	471.4	445.5	437.7
77.5°	2657.3	1647.2	756.3	748.5	580.1	468.8	442.9	424.7	398.8	370.4	365.2
80°	1118.8	839.1	512.8	505.0	385.9	326.3	318.6	316.0	305.6	282.3	274.5
82.5°	613.8	474.0	357.4	310.8	233.1	189.1	196.8	199.4	191.7	168.3	152.8
85°	300.4	259.0	173.5	139.9	106.2	67.3	64.7	77.7	72.5	51.8	57.0
87.5°	59.6	72.5	46.6	20.7	10.4	0.0	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)