

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: P452675

Luminaire Tested: **GALN-SA3C-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15723 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

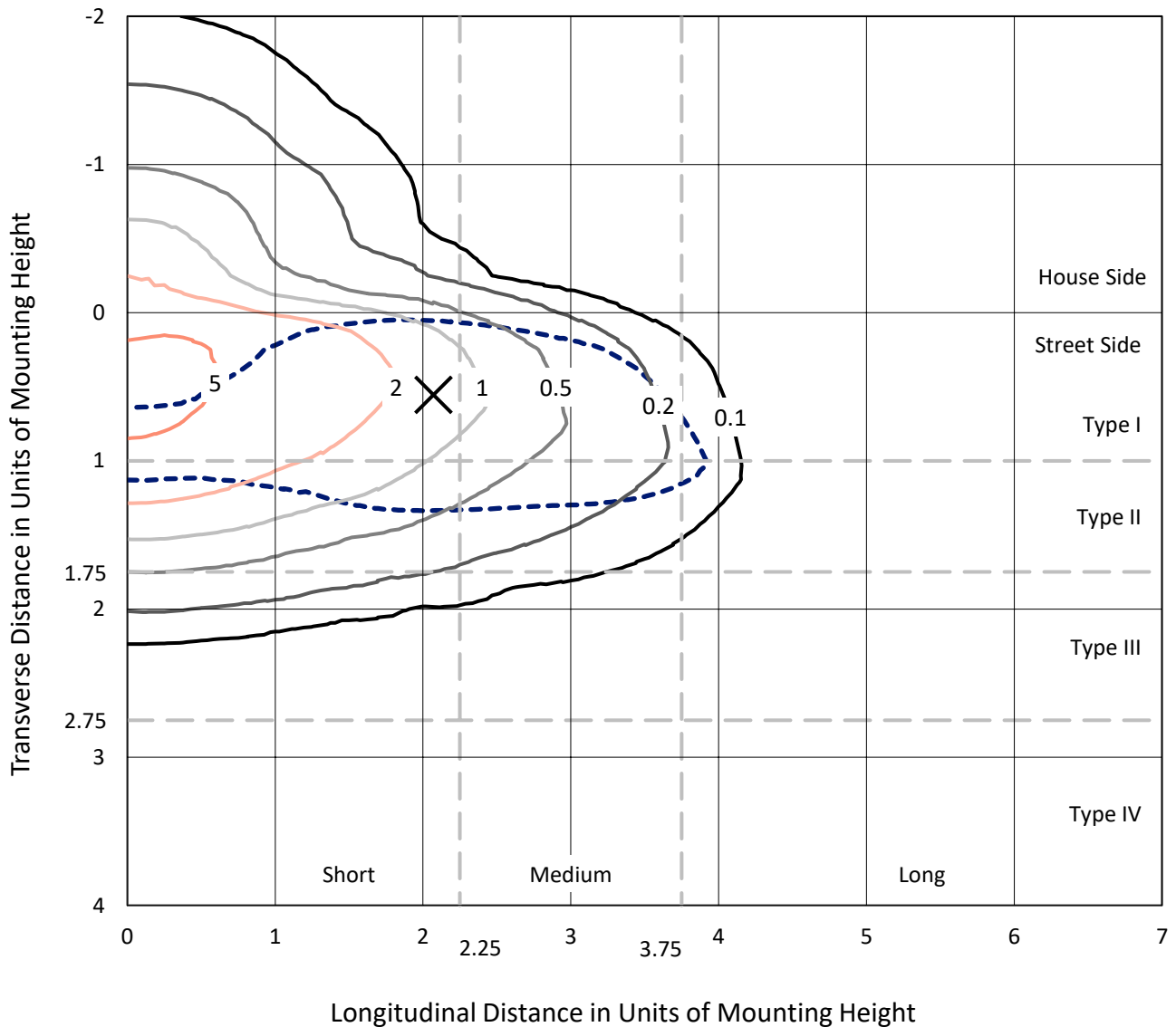
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

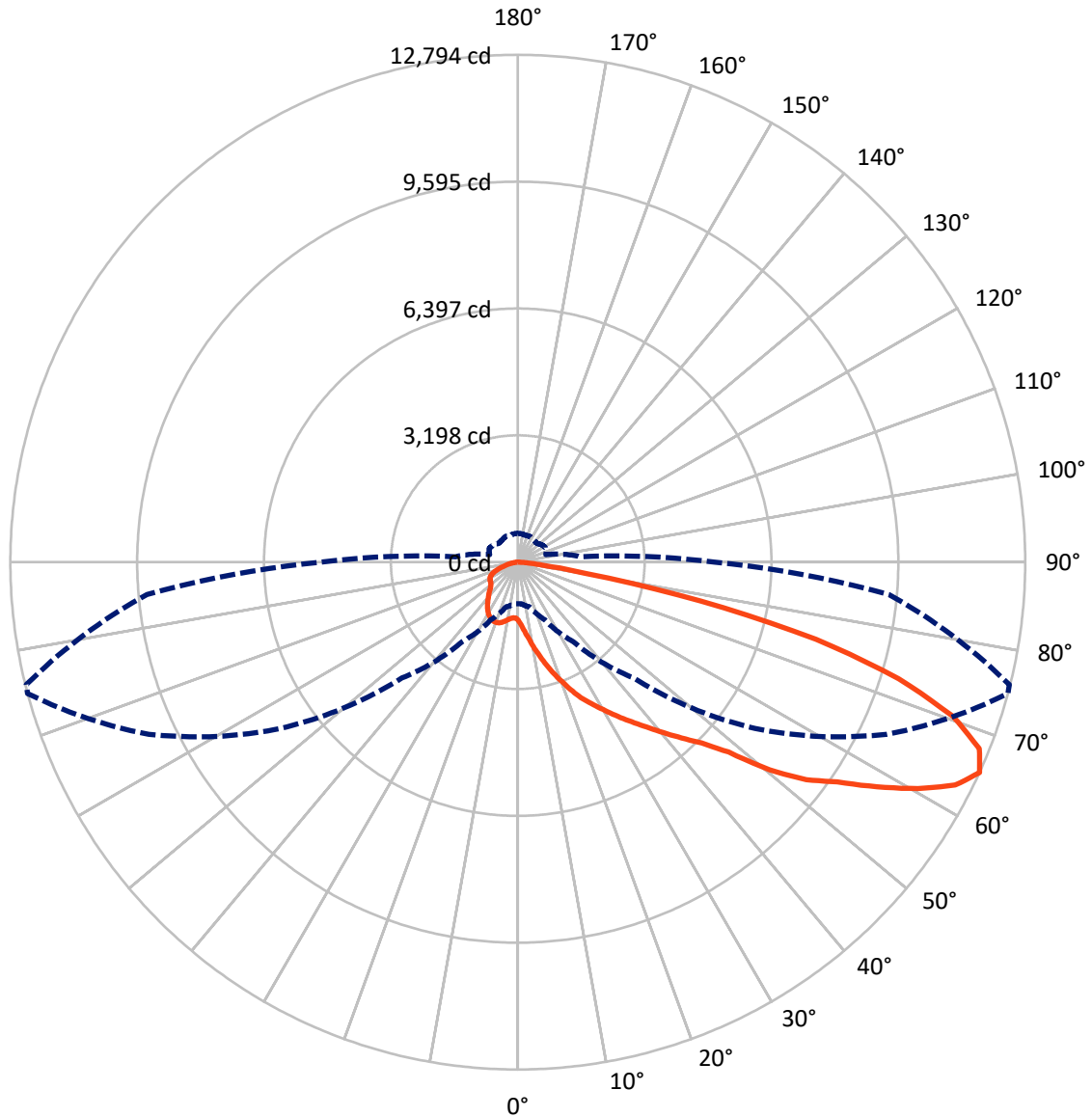
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2643.2	0.0	2643.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	13079.8	0.0	13079.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	15723.0	0.0	15723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	1.1
10°-20°	695.2	4.4
20°-30°	1342.9	8.5
30°-40°	2181.3	13.9
40°-50°	3000.5	19.1
50°-60°	3542.6	22.5
60°-70°	3103.9	19.7
70°-80°	1481.8	9.4
80°-90°	197.2	1.3
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°	15723.0	100.0
0°-180°	15723.0	100.0

Coefficient of Utilization



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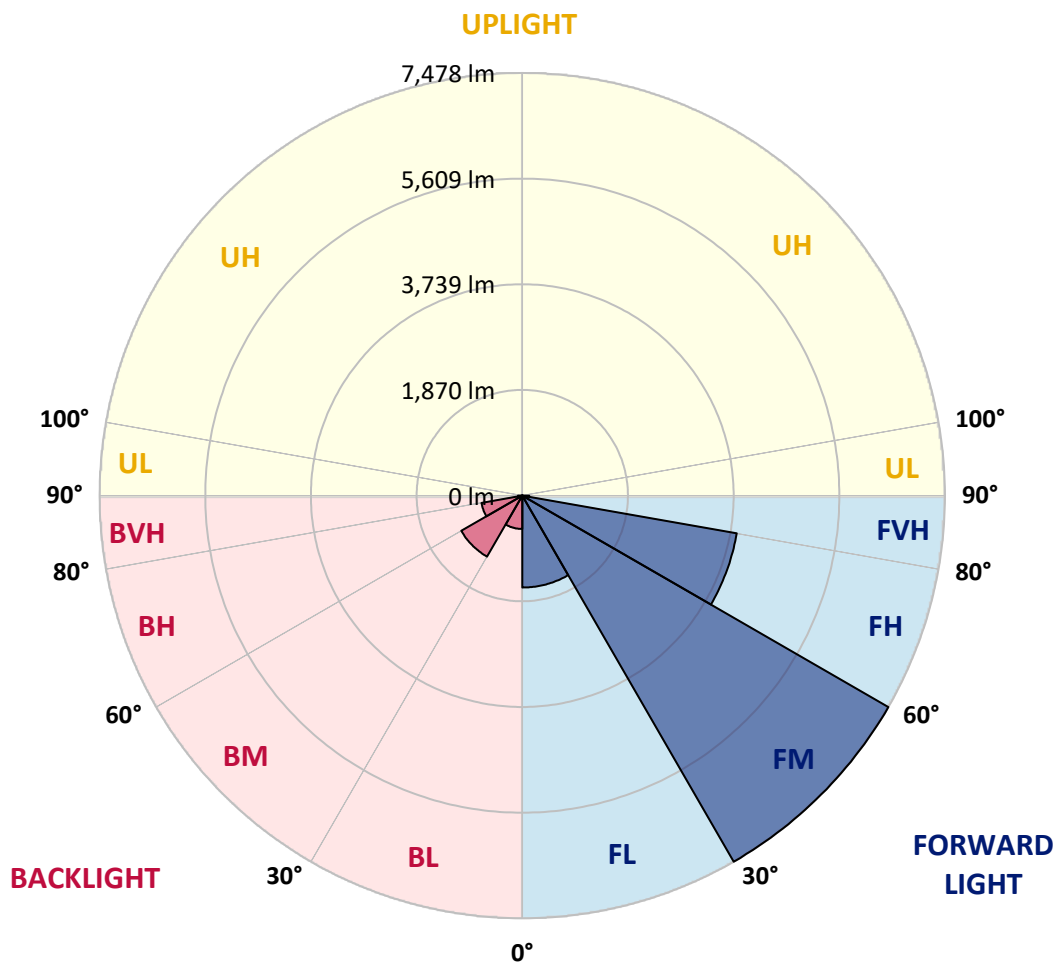
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.5	10.3			
FM	(30°-60°)	7478.2	47.6			
FH	(60°-80°)	3852.8	24.5			G2/5000
FVH	(80°-90°)	123.2	0.8			G2/225
BL	(0°-30°)	590.1	3.8	B2/1000		
BM	(30°-60°)	1246.3	7.9	B2/2500		
BH	(60°-80°)	732.9	4.7	B2/1000		G2/1000
BVH	(80°-90°)	74.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9
2.5°	1941.0	1928.2	1914.6	1877.0	1837.0	1791.8	1726.9	1664.7	1582.0	1579.4	1518.0
5°	2479.1	2470.6	2410.0	2375.1	2282.1	2158.5	2053.6	1890.7	1739.7	1721.8	1602.4
7.5°	2973.8	2940.5	2917.5	2854.4	2762.3	2603.6	2400.7	2180.6	1928.2	1904.3	1706.5
10°	3346.4	3343.0	3331.1	3276.5	3207.4	3049.7	2824.5	2509.0	2167.0	2120.1	1832.7
12.5°	3625.3	3627.9	3626.2	3625.3	3575.8	3441.9	3198.0	2865.4	2408.3	2375.1	1978.5
15°	3808.7	3834.2	3844.5	3887.1	3891.4	3801.8	3592.0	3210.0	2680.4	2630.9	2135.4
17.5°	3929.8	3942.5	3990.3	4062.8	4121.6	4105.4	3918.7	3528.9	2958.4	2875.7	2298.3
20°	4045.7	4067.9	4104.6	4203.5	4307.5	4355.3	4224.0	3855.6	3233.9	3181.0	2478.3
22.5°	4287.1	4318.6	4331.4	4381.7	4470.4	4554.9	4495.2	4168.5	3535.8	3464.1	2669.3
25°	4695.6	4728.8	4693.0	4681.1	4710.1	4751.9	4739.1	4463.6	3820.6	3718.3	2850.1
27.5°	5227.7	5232.0	5162.1	5095.5	5023.9	5002.6	4963.4	4725.4	4067.9	3982.6	3031.7
30°	5799.1	5778.6	5662.7	5542.4	5421.3	5301.9	5189.4	4977.9	4343.4	4245.3	3210.0
32.5°	6329.6	6318.5	6189.7	6002.9	5798.3	5685.7	5458.0	5232.8	4638.4	4543.8	3393.3
35°	6727.0	6743.2	6601.6	6397.8	6174.4	6074.6	5787.2	5500.6	4943.7	4840.6	3592.9
37.5°	7009.3	7000.7	6875.4	6698.8	6502.7	6415.7	6171.8	5793.1	5272.1	5173.2	3811.2
40°	7109.9	7104.8	7011.8	6883.0	6758.5	6727.8	6574.3	6108.7	5648.2	5532.2	4073.9
42.5°	7045.9	7057.0	6995.6	6960.6	6937.6	6959.8	6974.3	6522.3	6058.4	5951.8	4358.7
45°	6849.8	6843.8	6835.3	6892.4	7022.0	7167.9	7370.0	6912.9	6504.4	6419.1	4740.8
47.5°	6499.3	6541.9	6563.2	6721.0	7004.1	7349.5	7825.4	7436.5	7151.7	7077.5	5323.2
50°	6008.9	6043.0	6169.2	6449.8	6872.0	7417.8	8270.6	8292.7	8231.3	8092.3	5956.0
52.5°	5243.1	5296.0	5556.1	6070.3	6600.8	7389.6	8540.0	9027.0	9108.0	9004.0	6579.4
55°	4386.0	4460.2	4734.8	5409.4	6227.2	7236.1	8726.0	9452.6	9775.8	9679.4	7179.8
57.5°	3546.8	3625.3	3907.6	4560.8	5575.7	6896.7	8847.9	9926.7	10684.9	10559.5	7926.9
60°	2658.2	2740.1	2982.3	3655.1	4647.8	6233.2	8765.2	10337.8	11593.1	11539.4	8674.8
62.5°	1715.0	1805.4	2016.0	2572.9	3572.4	5326.7	8322.6	10564.6	12379.4	12314.6	9220.6
65°	1044.7	1054.9	1170.9	1597.3	2445.0	4124.2	7310.3	10263.6	12793.9	12774.3	9386.9
67.5°	675.4	691.6	744.5	956.9	1466.0	2864.6	5845.2	9270.1	12551.7	12544.9	9043.2
70°	570.5	575.6	599.5	645.6	852.0	1737.2	4104.6	7686.4	11631.5	11631.5	8216.8
72.5°	510.0	516.8	525.3	539.8	608.1	984.1	2449.3	5983.3	10042.7	10109.2	6993.9
75°	463.1	461.4	466.5	469.0	518.5	643.0	1266.4	4425.2	7769.1	7636.1	5064.8
77.5°	396.6	399.1	396.6	407.6	458.0	489.5	643.0	2969.5	4708.4	4536.1	2542.2
80°	325.8	330.0	334.3	341.1	391.4	371.8	386.3	1353.4	1741.4	1704.8	785.4
82.5°	244.8	250.7	257.5	273.8	307.9	245.6	243.9	578.2	628.5	575.6	289.1
85°	98.9	116.8	176.5	192.7	193.6	134.7	150.1	241.3	256.7	250.7	113.4
87.5°	23.0	27.3	57.1	86.1	79.3	50.3	55.4	78.5	89.5	82.7	38.4
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°	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9
2.5°	1489.9	1460.0	1408.8	1369.6	1341.5	1316.7	1301.4	1292.0	1288.6	1287.7	1288.6
5°	1540.2	1487.3	1406.3	1355.1	1327.0	1310.8	1301.4	1300.5	1301.4	1302.2	1299.7
7.5°	1609.3	1533.4	1427.6	1379.8	1358.5	1346.6	1342.3	1340.6	1341.5	1340.6	1340.6
10°	1701.4	1597.3	1469.4	1419.9	1402.0	1388.4	1381.6	1377.3	1373.9	1370.5	1368.8
12.5°	1802.8	1668.1	1514.6	1466.8	1441.3	1419.9	1404.6	1393.5	1385.8	1378.1	1376.4
15°	1916.3	1743.1	1564.9	1498.4	1461.7	1430.2	1403.7	1385.8	1372.2	1361.1	1360.2
17.5°	2024.6	1813.9	1599.0	1512.9	1459.2	1414.8	1379.8	1355.1	1338.1	1323.6	1321.9
20°	2140.6	1881.3	1614.4	1503.5	1433.6	1379.8	1333.8	1303.9	1284.3	1268.1	1265.6
22.5°	2257.4	1938.4	1612.7	1473.7	1389.2	1326.1	1277.5	1246.0	1222.9	1206.7	1200.8
25°	2369.1	1984.5	1591.3	1425.9	1327.8	1262.2	1212.7	1183.7	1163.2	1143.6	1143.6
27.5°	2469.7	2011.8	1551.3	1367.9	1264.7	1195.6	1156.4	1130.0	1111.2	1098.4	1090.7
30°	2568.7	2024.6	1496.7	1294.6	1198.2	1139.4	1107.8	1092.5	1075.4	1060.9	1059.2
32.5°	2657.4	2022.0	1428.5	1222.9	1135.1	1093.3	1080.5	1068.6	1050.7	1030.2	1025.1
35°	2743.5	2005.0	1347.4	1144.5	1082.2	1066.0	1069.4	1052.4	1020.0	994.4	990.1
37.5°	2837.3	1974.3	1258.7	1080.5	1037.9	1053.2	1061.7	1024.2	971.4	931.3	921.9
40°	2945.6	1939.3	1166.6	1016.6	1002.9	1041.3	1041.3	972.2	899.7	875.0	868.2
42.5°	3072.7	1910.3	1089.9	962.8	973.9	1012.3	1008.0	903.1	873.3	860.5	857.1
45°	3273.9	1900.1	1010.6	915.9	950.0	978.2	943.2	879.2	862.2	852.0	848.5
47.5°	3592.0	1912.0	940.7	881.0	922.7	944.1	870.7	863.0	851.1	836.6	834.9
50°	3887.1	1900.9	891.2	861.3	898.9	903.1	840.9	843.4	836.6	820.4	817.0
52.5°	4128.5	1866.0	859.6	851.1	878.4	831.5	812.7	822.1	819.6	799.1	795.7
55°	4393.7	1844.6	844.3	851.1	864.8	769.2	786.3	799.9	796.5	782.0	781.2
57.5°	4715.2	1848.9	833.2	853.7	851.1	737.7	759.9	776.1	775.2	770.9	770.9
60°	5044.4	1850.6	816.1	852.8	834.9	713.0	732.6	755.6	757.3	759.9	759.9
62.5°	5153.5	1776.4	782.9	837.5	799.1	689.1	707.0	738.5	736.8	743.7	744.5
65°	4949.7	1570.9	733.4	802.5	753.0	672.0	687.4	716.4	707.0	724.9	728.3
67.5°	4505.4	1299.7	656.7	739.4	701.9	654.1	674.6	685.7	668.6	703.6	704.4
70°	3893.9	1014.8	559.4	649.8	643.9	635.3	664.3	647.3	623.4	666.0	657.5
72.5°	3256.0	775.2	446.9	531.3	566.3	607.2	646.4	597.8	564.6	577.4	562.0
75°	2445.9	573.1	359.0	416.2	471.6	567.1	630.2	538.1	487.0	475.0	471.6
77.5°	1246.8	374.4	268.6	311.3	353.9	512.5	608.1	468.2	403.4	384.6	376.1
80°	445.2	232.8	189.3	214.9	238.8	440.9	531.3	387.2	313.0	309.6	313.0
82.5°	206.4	150.1	127.1	140.7	141.6	294.2	405.1	289.1	237.9	361.6	305.3
85°	88.7	75.0	71.6	69.9	64.8	131.3	227.7	155.2	242.2	108.3	99.8
87.5°	26.4	29.8	26.4	19.6	14.5	14.5	23.0	8.5	6.0	4.3	4.3
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)