

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: P651225

Luminaire Tested: **GALN-SA2D-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13211.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

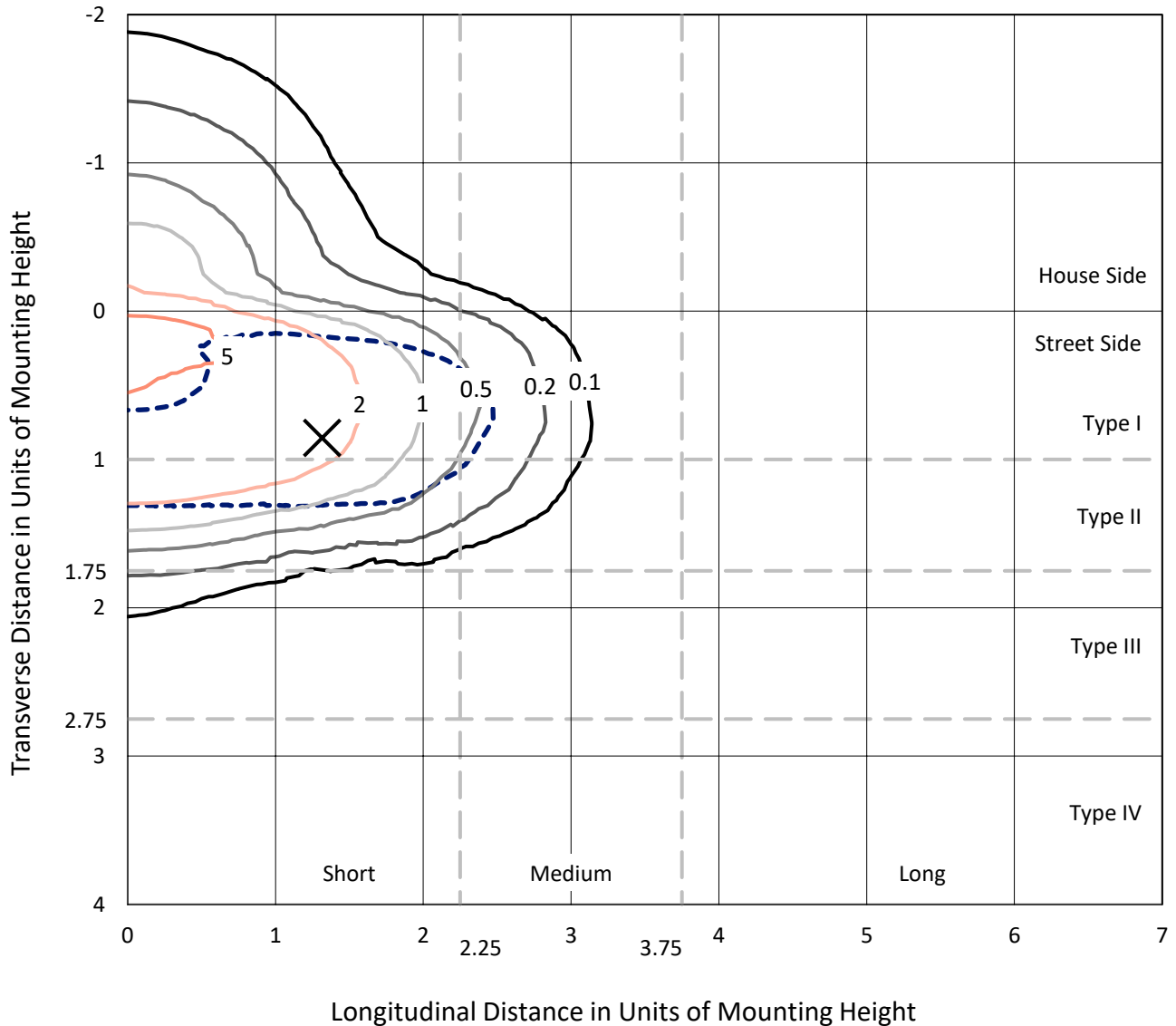
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651225
 CATALOG NUMBER: GALN-SA2D-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

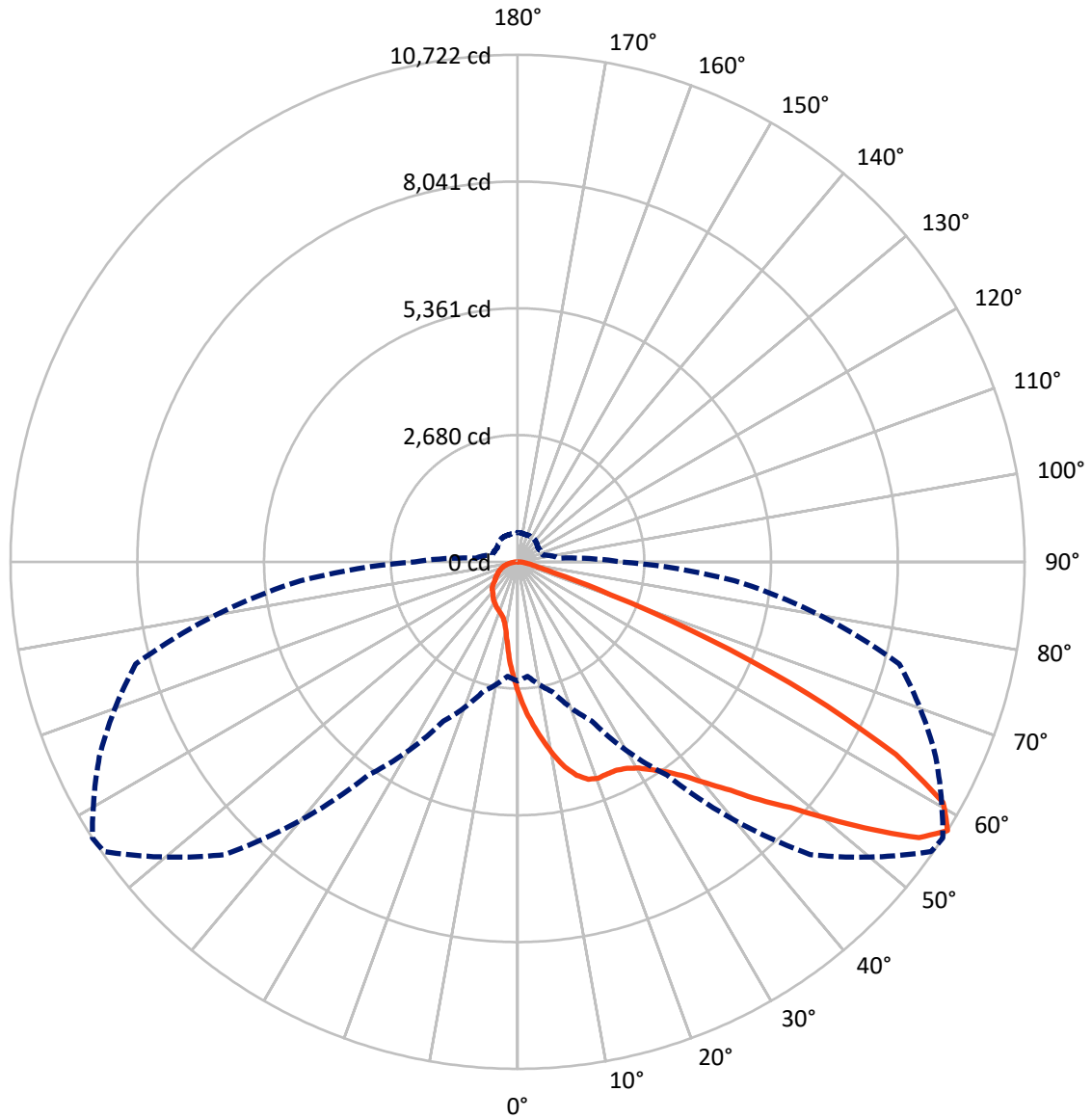
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P651225
CATALOG NUMBER: GALN-SA2D-840-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P651225
 CATALOG NUMBER: GALN-SA2D-840-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2009.1	0.0	2009.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	11202.2	0.0	11202.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	13211.3	0.0	13211.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	2.0
10°-20°	786.1	6.0
20°-30°	1305.4	9.9
30°-40°	1966.3	14.9
40°-50°	2952.2	22.3
50°-60°	3309.1	25.0
60°-70°	1936.6	14.7
70°-80°	572.9	4.3
80°-90°	115.8	0.9
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°	13211.3	100.0
0°-180°	13211.3	100.0

Coefficient of Utilization

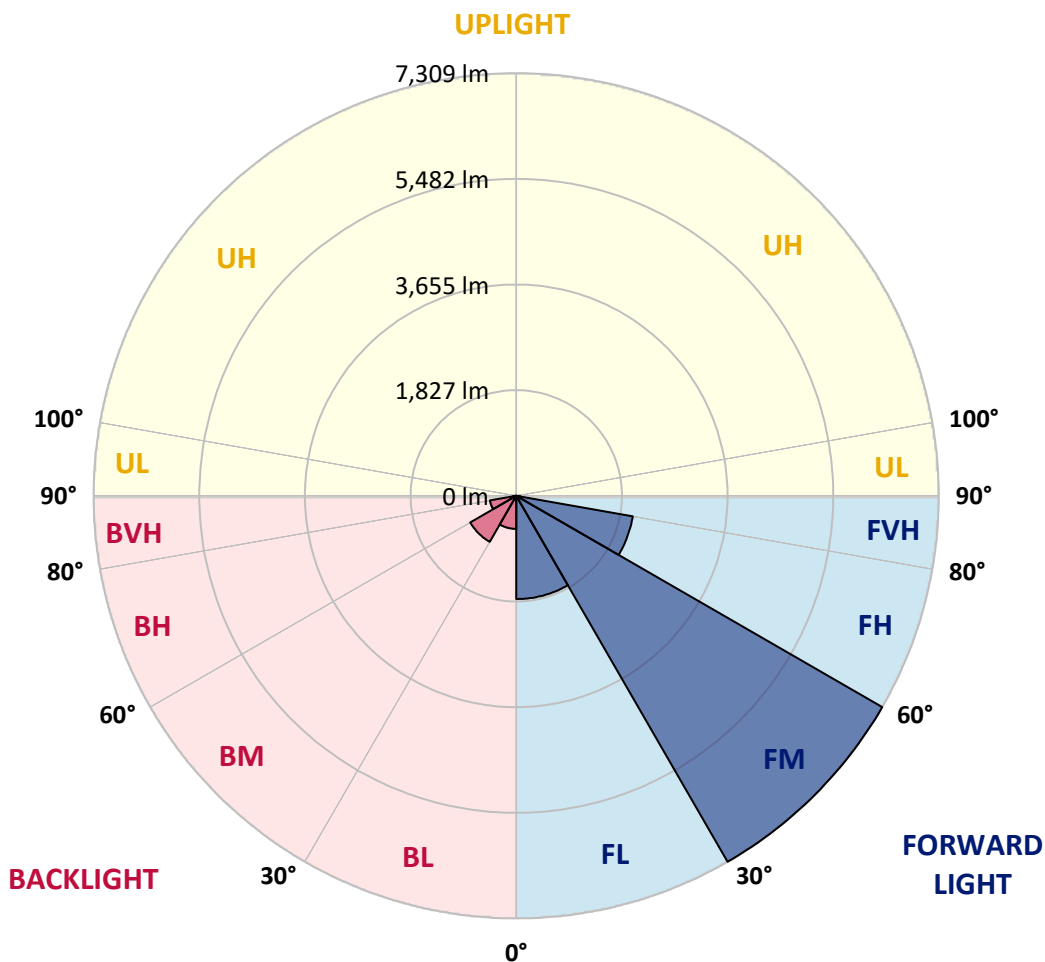


REPORT NUMBER: P651225
 CATALOG NUMBER: GALN-SA2D-840-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.9	13.5			
FM (30°-60°)	7309.0	55.3			
FH (60°-80°)	2047.2	15.5			G2/5000
FVH (80°-90°)	60.1	0.5			G1/100
BL (0°-30°)	572.5	4.3	B2/1000		
BM (30°-60°)	918.6	7.0	B1/1000		
BH (60°-80°)	462.3	3.5	B1/500		G1/500
BVH (80°-90°)	55.7	0.4			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





REPORT NUMBER: P651225

CATALOG NUMBER: GALN-SA2D-840-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6
2.5°	3448.8	3411.2	3381.6	3355.5	3321.5	3229.7	3137.9	3136.4	3063.3	2950.6	2834.8
5°	4010.7	3960.1	3966.6	3885.6	3804.6	3671.6	3477.0	3466.9	3311.4	3100.3	2885.5
7.5°	4376.6	4377.4	4357.1	4310.8	4223.3	4072.2	3851.6	3801.7	3585.5	3265.1	2943.3
10°	4357.8	4377.4	4411.4	4451.2	4477.9	4403.4	4202.4	4141.6	3860.3	3464.8	3007.7
12.5°	4107.6	4138.0	4186.4	4286.2	4447.5	4570.4	4501.8	4452.6	4178.5	3663.6	3078.6
15°	3951.4	3969.5	3996.3	4063.5	4237.0	4531.4	4709.3	4683.3	4478.6	3888.5	3158.1
17.5°	3903.7	3921.8	3930.4	3971.6	4095.3	4396.9	4791.0	4837.3	4744.8	4095.3	3238.4
20°	3951.4	3960.1	3960.1	3984.7	4081.6	4318.0	4787.4	4880.7	4963.2	4343.3	3313.5
22.5°	4076.5	4080.1	4075.1	4083.7	4156.1	4339.7	4753.4	4869.1	5139.6	4553.8	3372.2
25°	4279.8	4285.5	4252.3	4232.0	4284.8	4435.2	4772.3	4878.6	5277.7	4754.8	3411.2
27.5°	4510.5	4517.7	4477.1	4430.1	4454.8	4553.1	4846.0	4941.5	5381.1	4953.0	3435.8
30°	4793.2	4796.1	4728.1	4671.7	4655.8	4728.9	4971.8	5060.8	5509.8	5186.6	3472.7
32.5°	5082.4	5104.1	5016.6	4937.1	4910.3	4932.8	5157.7	5243.7	5663.1	5437.6	3531.9
35°	5475.8	5479.5	5374.6	5277.7	5189.5	5218.4	5395.6	5457.8	5875.1	5727.5	3615.9
37.5°	5966.9	6000.2	5855.5	5674.7	5566.2	5524.3	5683.4	5751.4	6172.3	6083.3	3742.4
40°	6512.2	6524.5	6400.8	6288.0	6089.8	5968.3	6078.2	6152.0	6538.9	6507.8	3889.2
42.5°	6855.0	6881.7	6891.1	6879.5	6730.6	6526.7	6568.5	6603.3	6972.8	6906.3	4039.7
45°	6970.6	7010.4	7145.0	7429.9	7445.8	7244.7	7147.2	7180.4	7445.8	7308.4	4183.6
47.5°	6779.0	6847.0	7095.0	7679.3	8116.9	8132.0	7837.8	7764.7	7876.8	7641.7	4287.7
50°	6283.6	6298.1	6677.8	7523.9	8431.4	8980.4	8675.9	8539.9	8286.1	7888.3	4359.3
52.5°	5517.0	5533.7	5851.9	6801.4	8237.7	9573.4	9656.5	9413.6	8701.9	8080.0	4406.3
55°	4095.3	4191.5	4541.5	5459.3	7319.2	9517.7	10436.1	10298.0	9204.6	8231.9	4480.1
57.5°	2518.1	2429.9	2844.9	3714.2	5504.8	8752.5	10676.9	10721.7	9757.8	8359.1	4603.7
60°	1158.6	1175.9	1347.3	1915.7	3355.5	6847.0	10056.4	10339.9	10063.7	8354.8	4634.8
62.5°	798.4	782.5	739.1	841.1	1530.2	4330.4	8494.4	8974.6	9450.4	8095.2	4511.1
65°	713.8	697.9	614.0	585.8	702.9	1887.5	6175.2	6781.2	7957.0	7440.0	4203.1
67.5°	666.7	645.0	558.3	503.3	501.9	751.3	3641.2	4370.8	5901.8	6290.2	3641.9
70°	617.6	600.2	514.2	453.5	427.4	472.2	1600.3	2095.0	3832.1	4532.8	2837.0
72.5°	568.4	548.2	470.8	405.7	371.7	353.6	613.3	797.7	2165.2	2717.7	1739.3
75°	496.8	486.7	420.9	367.3	330.5	285.7	389.0	444.0	1035.6	1248.2	872.9
77.5°	434.6	423.8	373.9	321.1	294.3	232.1	276.3	301.6	436.8	506.2	394.1
80°	318.2	329.1	315.3	283.5	262.5	182.2	185.9	206.8	259.6	287.1	240.8
82.5°	201.8	222.0	243.0	218.4	198.9	143.9	128.8	136.7	177.2	188.0	107.1
85°	84.6	86.0	141.0	133.0	113.5	85.4	77.4	81.7	94.7	99.1	49.9
87.5°	32.5	31.8	49.9	46.3	35.4	24.6	24.6	27.5	37.6	34.7	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651225
 CATALOG NUMBER: GALN-SA2D-840-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6
2.5°	2785.0	2733.6	2631.7	2505.1	2412.5	2308.4	2216.5	2150.7	2126.1	2114.5	2092.8
5°	2782.8	2681.5	2470.4	2249.1	2071.1	1888.9	1734.9	1635.1	1626.4	1559.9	1553.4
7.5°	2783.5	2628.7	2292.5	1967.0	1695.9	1509.3	1382.0	1348.7	1308.9	1298.8	1303.9
10°	2785.6	2561.5	2101.6	1687.9	1425.4	1303.1	1255.4	1242.4	1243.8	1248.2	1248.9
12.5°	2788.6	2496.4	1903.4	1476.0	1273.5	1222.9	1217.9	1229.4	1241.7	1251.1	1253.3
15°	2792.2	2421.9	1710.3	1305.3	1197.6	1193.2	1209.9	1229.4	1246.8	1260.5	1262.7
17.5°	2787.8	2335.1	1548.3	1200.4	1155.6	1176.6	1204.1	1228.7	1244.6	1257.6	1259.1
20°	2777.7	2238.2	1392.1	1126.7	1129.6	1163.6	1193.2	1216.3	1233.7	1240.2	1245.3
22.5°	2738.6	2122.5	1256.1	1069.6	1098.5	1145.5	1180.9	1194.6	1175.1	1161.4	1165.0
25°	2672.1	1972.1	1129.6	1023.3	1070.3	1120.2	1156.4	1123.1	1107.2	1101.4	1104.3
27.5°	2588.9	1807.2	1034.2	974.8	1034.2	1092.0	1081.9	1076.1	1068.8	1059.4	1061.6
30°	2499.3	1645.9	953.1	937.2	995.1	1028.4	1032.7	1042.1	1034.2	1019.7	1025.4
32.5°	2416.1	1494.0	891.7	905.4	967.6	962.5	995.1	1005.9	969.1	920.6	922.7
35°	2345.2	1353.1	845.4	874.3	920.6	922.7	955.3	917.7	877.9	854.8	856.2
37.5°	2291.7	1243.2	815.0	847.6	860.6	888.1	870.7	851.2	846.1	830.2	830.9
40°	2259.9	1147.0	795.5	826.6	824.4	843.2	787.5	807.0	814.3	809.2	810.0
42.5°	2228.1	1079.0	775.2	797.7	796.9	760.1	747.7	764.4	783.2	785.3	783.9
45°	2202.7	1026.2	754.3	753.5	768.0	710.1	706.5	716.7	743.4	756.5	755.7
47.5°	2174.6	982.0	722.4	702.2	706.5	679.0	673.3	677.6	710.1	731.2	736.9
50°	2139.2	938.0	682.6	655.2	637.1	650.1	651.6	652.3	684.8	708.7	713.8
52.5°	2110.9	904.7	637.1	616.9	595.2	624.1	635.0	636.4	655.9	675.4	679.0
55°	2127.6	885.9	592.3	577.9	558.3	597.4	618.3	621.2	625.5	640.0	642.2
57.5°	2177.4	890.2	556.2	537.3	522.8	565.5	601.0	603.2	600.2	617.6	620.5
60°	2192.7	888.1	529.3	492.5	483.8	531.5	575.7	580.0	579.3	604.6	609.6
62.5°	2129.0	860.6	502.6	454.9	449.1	496.8	540.2	557.6	561.2	597.4	603.8
65°	1979.3	804.2	467.2	415.1	415.1	459.9	506.2	530.1	540.2	588.7	595.9
67.5°	1781.9	737.6	431.0	381.1	379.6	424.5	470.0	494.7	510.6	576.3	580.7
70°	1478.9	648.0	386.2	344.2	344.2	384.8	426.0	455.6	478.8	553.2	553.2
72.5°	1013.2	538.7	331.9	302.3	303.0	340.6	382.6	415.8	443.3	507.0	508.4
75°	640.8	420.9	272.7	257.4	260.4	295.8	339.2	373.9	428.8	501.2	503.3
77.5°	340.6	295.8	217.0	213.4	217.0	249.5	298.0	345.7	430.3	434.6	427.4
80°	220.6	209.7	171.4	164.2	165.6	201.1	265.4	328.3	345.7	350.0	334.1
82.5°	120.0	133.0	121.5	114.3	114.3	156.9	226.3	261.0	248.0	206.1	196.7
85°	51.4	62.2	62.9	55.0	52.8	96.9	151.9	142.5	132.4	126.6	125.1
87.5°	14.5	20.3	20.3	15.2	11.6	26.7	30.4	8.7	0.0	0.8	1.4
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)