

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: P647838

Luminaire Tested: **GALN-SA3A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6305.5 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

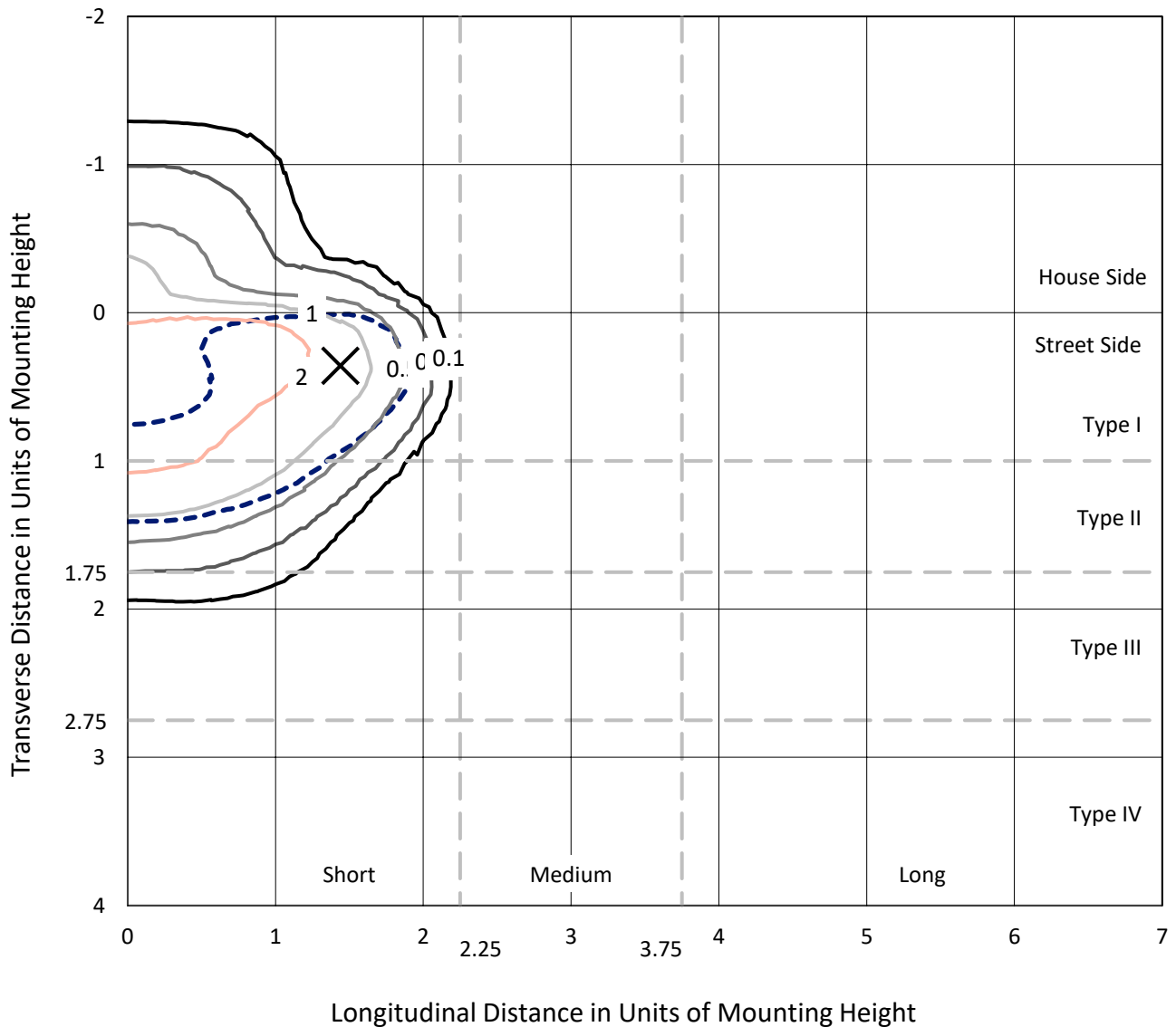
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647838
 CATALOG NUMBER: GALN-SA3A-835-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

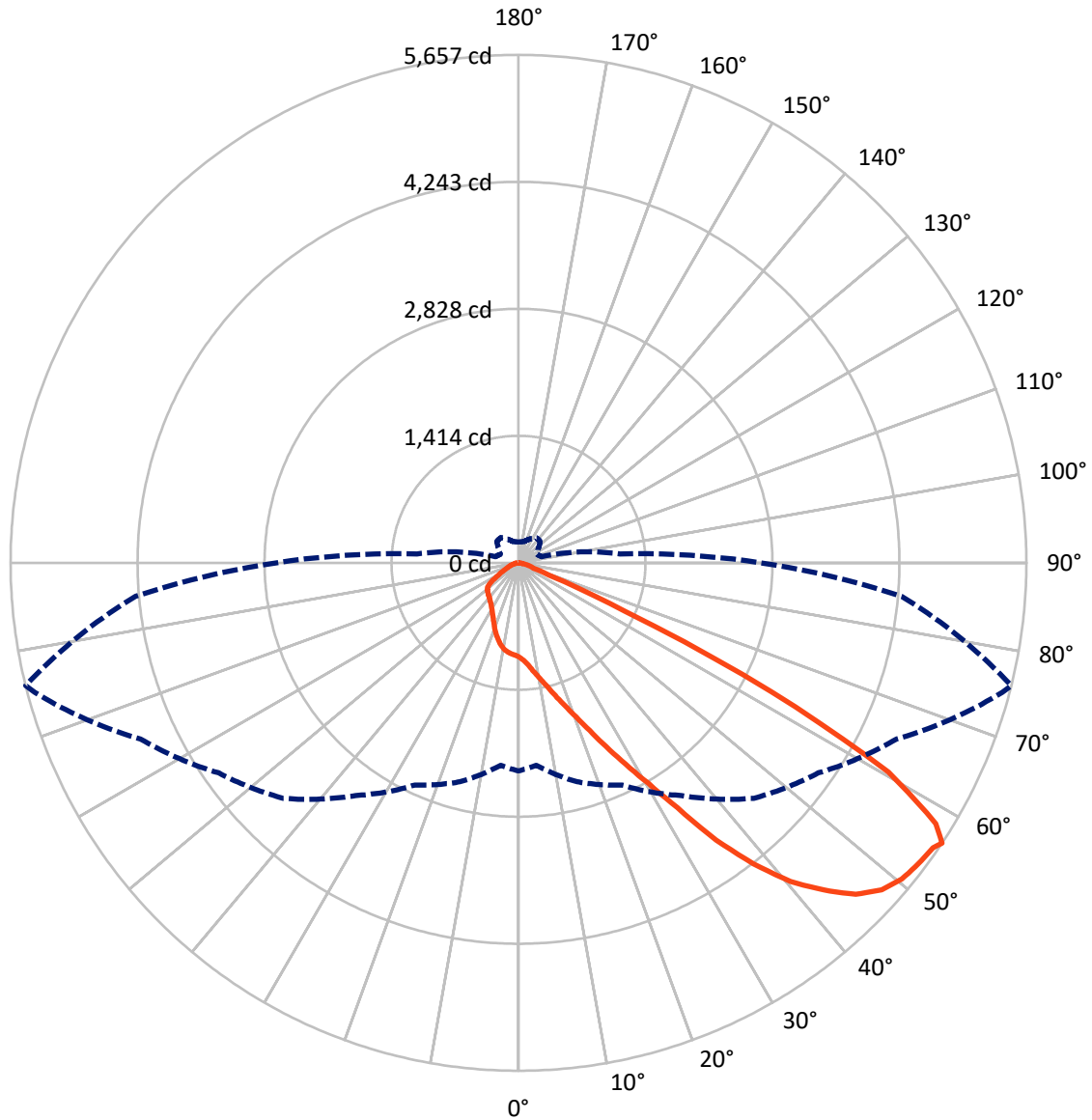
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

REPORT NUMBER: P647838
CATALOG NUMBER: GALN-SA3A-835-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647838
 CATALOG NUMBER: GALN-SA3A-835-U-T2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	990.6	0.0	990.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5314.9	0.0	5314.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	6305.5	0.0	6305.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.7
10°-20°	339.7	5.4
20°-30°	615.9	9.8
30°-40°	1062.2	16.8
40°-50°	1725.5	27.4
50°-60°	1818.8	28.8
60°-70°	555.7	8.8
70°-80°	71.2	1.1
80°-90°	10.8	0.2
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°	6305.5	100.0
0°-180°	6305.5	100.0

Coefficient of Utilization

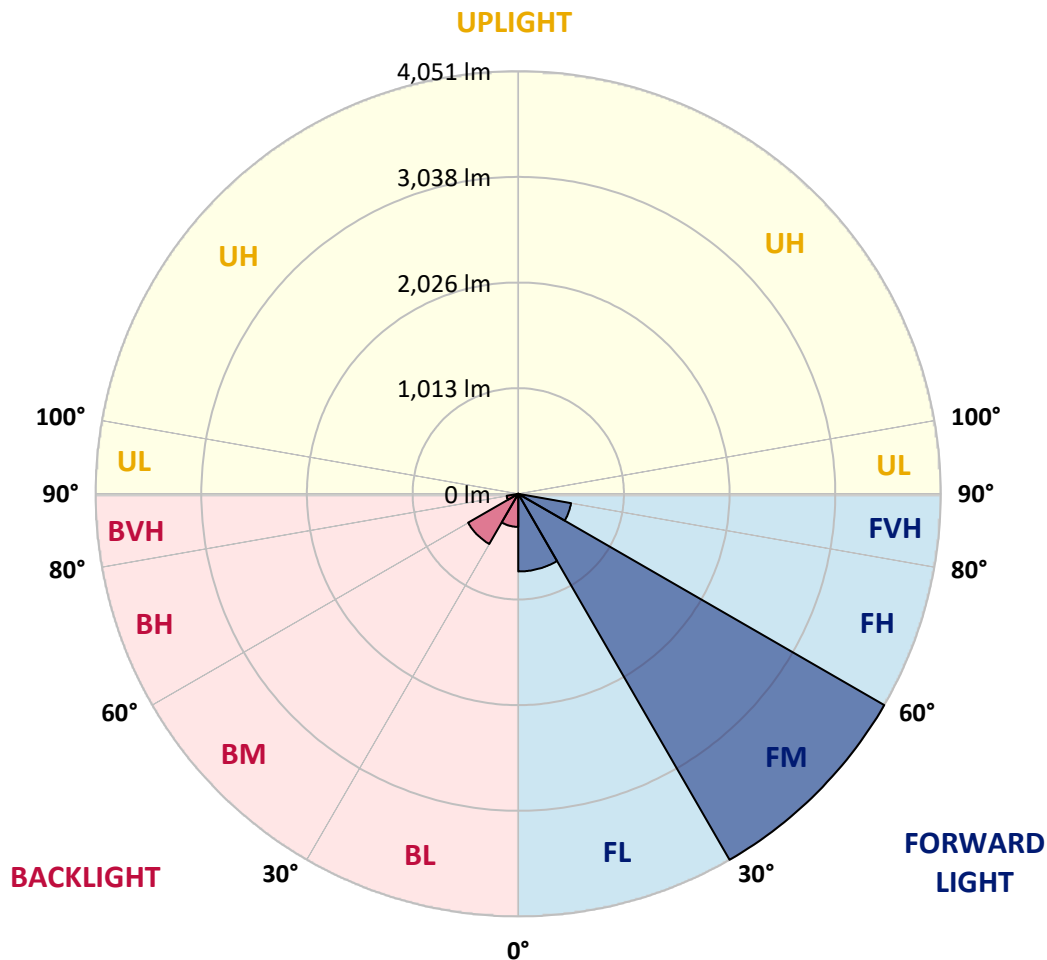


REPORT NUMBER: P647838
 CATALOG NUMBER: GALN-SA3A-835-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.4	11.8			
FM (30°-60°)	4051.3	64.2			
FH (60°-80°)	513.9	8.2			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	316.9	5.0	B1/500		
BM (30°-60°)	555.2	8.8	B1/1000		
BH (60°-80°)	113.0	1.8	B1/500		G1/500
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P647838

CATALOG NUMBER: GALN-SA3A-835-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5
2.5°	1208.8	1180.9	1182.1	1179.7	1176.2	1163.5	1125.1	1119.3	1093.7	1086.7	1063.5
5°	1354.1	1329.7	1343.6	1322.7	1302.9	1291.3	1228.5	1199.5	1158.8	1143.7	1111.2
7.5°	1444.7	1433.1	1428.5	1429.6	1411.0	1382.0	1354.1	1290.1	1235.5	1223.9	1155.3
10°	1488.9	1481.9	1488.9	1485.4	1493.6	1497.0	1448.2	1409.9	1329.7	1309.9	1203.0
12.5°	1499.4	1513.3	1519.1	1534.2	1554.0	1587.7	1584.2	1531.9	1425.0	1412.2	1276.2
15°	1525.0	1536.6	1530.8	1555.2	1592.4	1649.3	1679.5	1671.4	1556.3	1533.1	1361.1
17.5°	1548.2	1527.2	1547.1	1595.8	1633.0	1720.2	1793.5	1827.1	1699.3	1672.6	1438.9
20°	1579.5	1573.8	1570.3	1594.7	1660.9	1777.2	1922.4	1984.0	1859.7	1831.8	1550.5
22.5°	1674.9	1676.0	1673.7	1637.7	1685.3	1816.7	2035.2	2187.5	2051.5	2028.2	1677.2
25°	1800.4	1785.3	1773.7	1744.6	1738.8	1852.7	2149.1	2436.2	2281.6	2265.3	1814.4
27.5°	1932.9	1932.9	1898.1	1871.3	1834.1	1942.2	2253.7	2677.9	2559.4	2537.3	1934.1
30°	2077.1	2085.2	2080.5	2023.6	2000.3	2039.9	2360.7	2987.1	2877.8	2850.0	2131.6
32.5°	2289.7	2272.3	2292.1	2244.4	2175.8	2210.7	2529.2	3263.8	3291.7	3252.1	2390.9
35°	2571.0	2560.6	2547.8	2469.9	2388.5	2416.4	2767.4	3604.3	3811.2	3791.4	2652.4
37.5°	2823.3	2817.4	2807.0	2753.5	2659.4	2693.1	3038.3	3958.8	4317.9	4252.9	3022.0
40°	3088.2	3119.6	3085.9	3038.3	2952.2	3026.6	3356.7	4169.2	4744.5	4665.5	3304.4
42.5°	3447.4	3423.0	3438.1	3350.9	3304.4	3385.8	3676.3	4379.6	5075.8	4981.6	3604.3
45°	3829.8	3831.0	3790.3	3762.4	3641.5	3729.8	3872.8	4495.8	5339.6	5266.4	3831.0
47.5°	4075.0	4073.9	4118.0	4162.2	4037.9	3950.7	4006.5	4606.2	5475.6	5441.9	3913.5
50°	4036.7	4048.3	4105.3	4270.3	4335.4	4218.0	4132.0	4573.7	5537.2	5533.7	3984.4
52.5°	3511.3	3549.7	3645.0	3883.3	4211.1	4356.3	4263.4	4634.1	5567.4	5573.2	4090.2
55°	2673.3	2694.2	2875.6	3165.0	3527.6	4025.1	4211.1	4681.8	5590.7	5601.1	4218.0
56°	2318.8	2263.0	2524.5	2730.2	3163.8	3707.7	4078.5	4644.6	5576.8	5656.9	4281.9
57.5°	1750.4	1713.2	1924.8	2181.7	2598.9	3173.1	3667.1	4469.1	5482.6	5481.4	4190.1
60°	1064.6	1027.5	1190.2	1341.3	1574.9	1953.8	2478.0	3559.0	4635.3	4732.9	3392.7
62.5°	633.4	656.7	817.1	908.9	984.5	1024.0	1282.0	2115.4	3092.8	3162.6	2104.9
65°	421.9	430.0	550.9	702.0	735.7	585.8	521.9	856.6	1341.3	1298.3	868.3
67.5°	260.3	279.0	369.6	527.7	584.7	427.8	247.6	319.6	369.6	369.6	251.0
70°	158.1	167.4	246.4	359.2	401.0	275.5	180.2	180.2	177.8	174.4	149.9
72.5°	75.6	81.4	125.5	184.8	188.3	145.3	139.5	152.3	148.8	147.6	124.3
75°	32.6	34.8	44.2	58.1	66.2	61.6	84.9	109.2	112.8	109.2	89.5
77.5°	10.5	11.6	16.3	20.9	22.1	26.7	36.0	45.3	52.3	48.8	44.2
80°	1.2	2.3	4.6	10.5	16.3	20.9	26.7	30.2	33.7	33.7	31.4
82.5°	1.2	1.2	4.6	9.3	15.1	19.7	25.6	29.0	33.7	34.8	32.6
85°	0.0	1.2	3.5	8.1	12.8	12.8	11.6	11.6	8.1	8.1	8.1
87.5°	0.0	0.0	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3
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: P647838

CATALOG NUMBER: GALN-SA3A-835-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5
2.5°	1058.9	1056.5	1025.2	1005.4	995.0	974.0	961.2	951.9	944.9	936.8	938.0
5°	1072.8	1064.6	1012.3	976.3	933.3	910.1	890.3	874.1	863.6	861.3	856.6
7.5°	1112.3	1069.3	990.3	925.2	870.5	847.3	829.9	819.4	824.1	813.6	821.8
10°	1142.6	1078.6	963.6	869.4	814.8	797.3	788.0	796.2	807.8	803.1	797.3
12.5°	1179.7	1087.9	920.6	816.0	764.8	752.0	768.3	783.4	806.6	816.0	804.3
15°	1221.6	1098.4	865.9	754.3	721.8	732.3	760.1	786.9	810.1	821.8	828.7
17.5°	1272.7	1094.9	812.4	705.5	681.1	711.4	745.0	769.5	804.3	821.8	817.1
20°	1320.4	1083.3	753.2	656.7	657.9	685.8	713.6	753.2	771.8	795.0	786.9
22.5°	1365.7	1062.4	691.5	623.0	623.0	666.0	680.0	705.5	721.8	733.4	732.3
25°	1429.6	1022.8	640.4	590.5	604.4	632.3	643.9	652.1	645.1	654.4	655.5
27.5°	1474.9	982.1	598.6	561.4	586.9	607.9	604.4	599.8	583.5	570.7	578.8
30°	1523.8	934.5	562.6	541.6	555.6	574.2	560.2	546.3	520.7	499.8	501.0
32.5°	1593.5	912.4	531.2	518.4	537.0	539.3	524.2	503.3	477.7	458.0	456.8
35°	1723.7	898.5	504.4	503.3	506.8	507.9	492.8	467.2	456.8	440.5	446.3
37.5°	1853.9	891.5	485.9	481.2	480.1	481.2	463.8	439.3	459.1	458.0	460.2
40°	2020.1	922.8	459.1	453.3	454.5	454.5	432.4	425.4	460.2	463.8	464.9
42.5°	2188.6	962.4	441.7	423.1	427.8	427.8	416.1	407.9	432.4	409.1	405.7
45°	2335.1	1020.5	423.1	392.8	404.5	410.3	406.8	392.8	377.7	338.3	338.3
47.5°	2382.7	1071.6	401.0	363.8	373.1	398.7	388.2	359.2	332.4	299.9	297.5
50°	2466.4	1127.4	383.6	330.1	349.8	381.2	370.8	341.7	311.5	288.2	289.4
52.5°	2552.4	1191.3	351.0	290.6	315.0	367.3	367.3	334.7	288.2	272.0	269.7
55°	2681.5	1189.1	292.9	238.3	281.3	346.4	352.2	299.9	258.0	245.2	245.2
56°	2700.0	1135.6	263.9	223.2	266.1	340.5	341.7	290.6	246.4	232.5	232.5
57.5°	2560.6	1025.2	231.3	204.6	247.6	330.1	331.3	282.4	237.1	217.4	215.0
60°	1970.1	693.9	192.9	182.5	224.3	297.5	303.3	256.9	208.0	192.9	191.8
62.5°	1112.3	384.7	169.7	165.1	192.9	253.4	270.8	224.3	176.6	168.5	170.9
65°	507.9	211.6	143.0	133.7	155.7	195.3	218.5	184.8	145.3	136.0	136.0
67.5°	186.0	144.2	122.1	105.8	109.2	126.7	141.8	119.7	96.5	82.5	86.0
70°	132.5	120.9	107.0	91.8	84.9	82.5	81.4	67.4	47.7	37.2	39.5
72.5°	107.0	100.0	89.5	77.9	66.2	55.8	47.7	34.8	22.1	15.1	13.9
75°	76.7	73.2	65.1	55.8	46.5	39.5	32.6	22.1	11.6	5.8	5.8
77.5°	39.5	39.5	38.4	34.8	29.0	23.3	18.6	12.8	7.0	2.3	2.3
80°	30.2	32.6	33.7	30.2	26.7	20.9	15.1	9.3	4.6	1.2	1.2
82.5°	29.0	33.7	36.0	31.4	26.7	19.7	15.1	9.3	4.6	1.2	1.2
85°	7.0	7.0	10.5	11.6	15.1	16.3	12.8	8.1	3.5	1.2	1.2
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	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)