

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: P648333

Luminaire Tested: **GALN-SA3B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648333
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-SA3B-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 7845.7 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

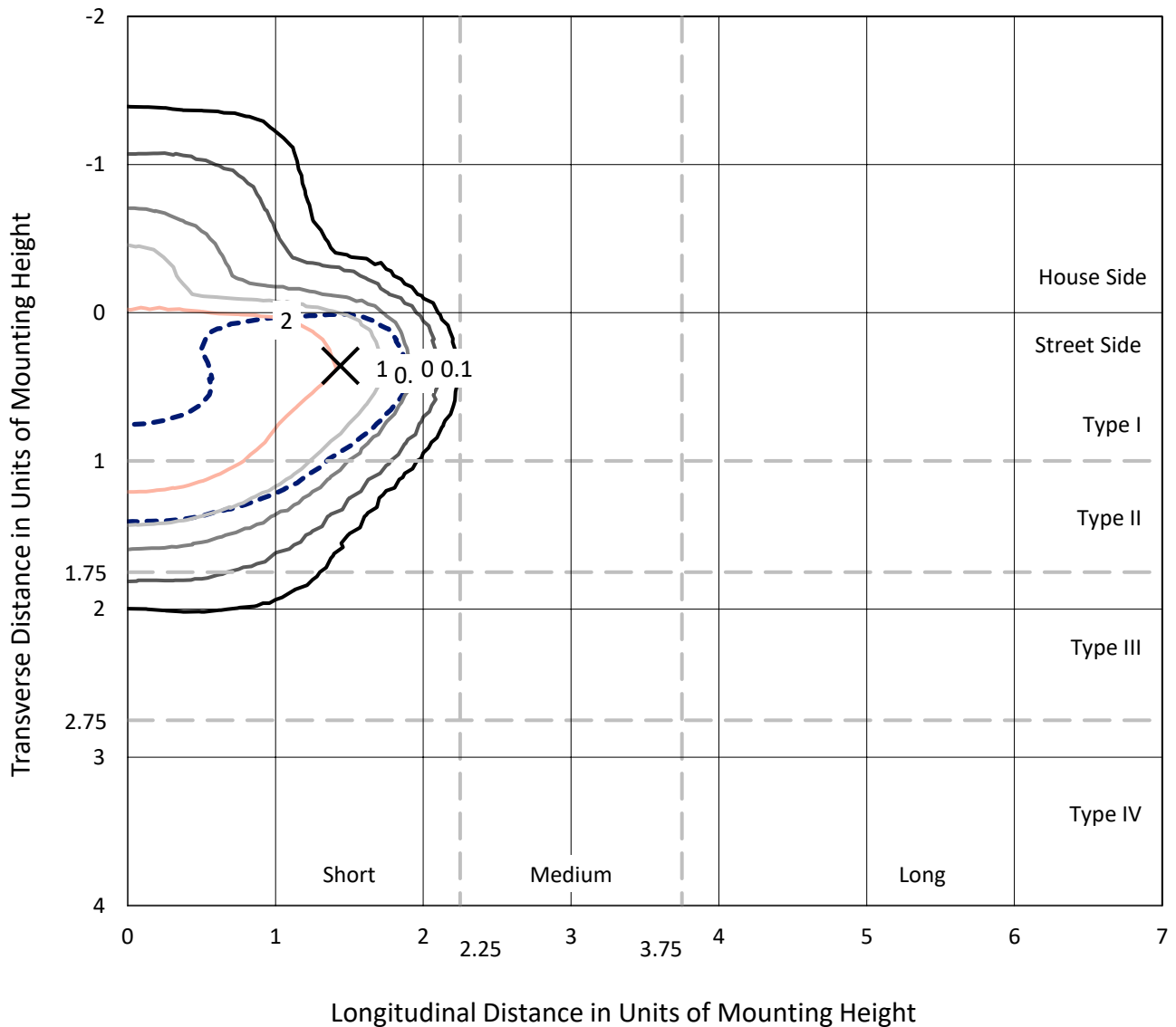
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

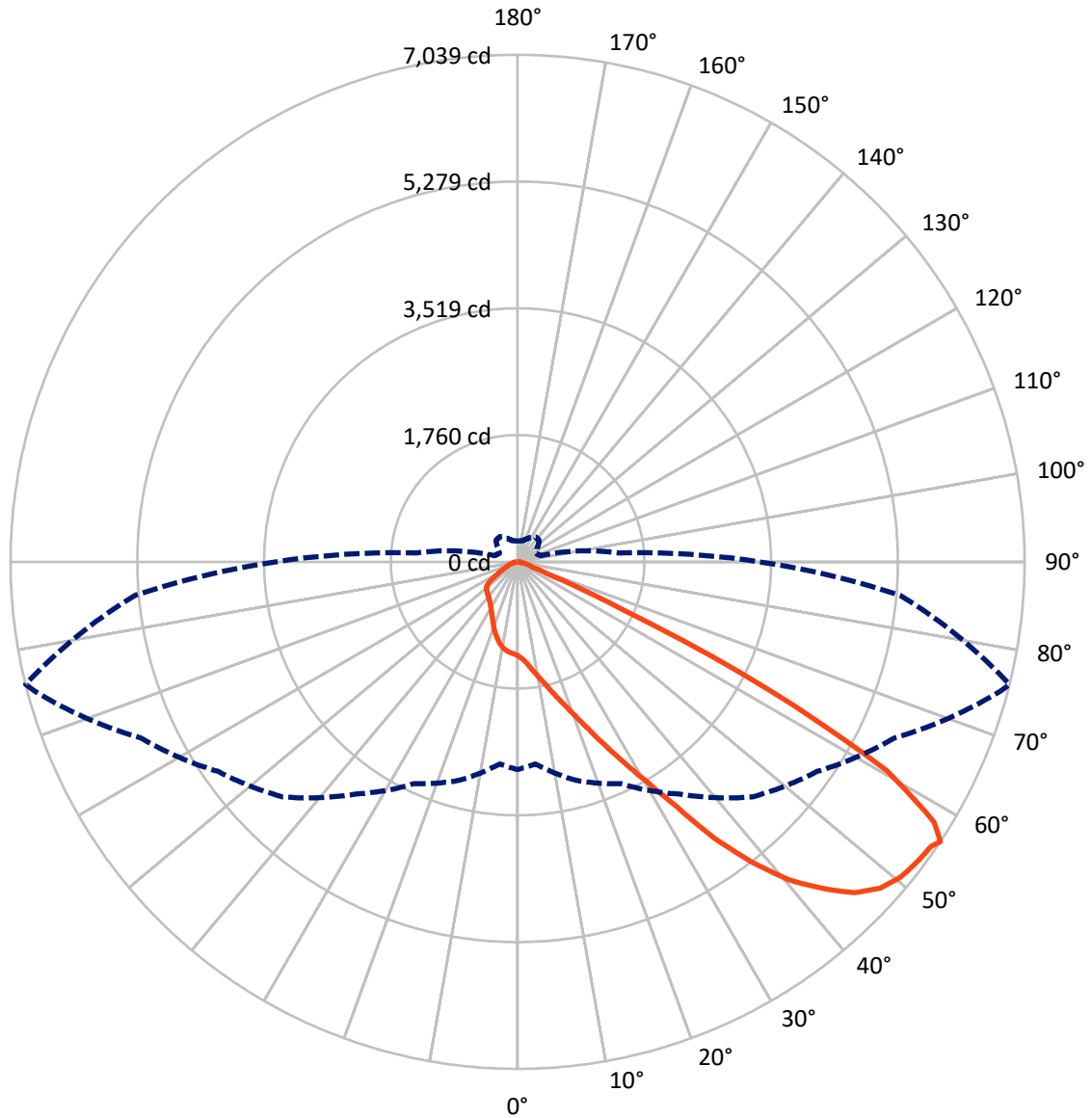
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1232.5	0.0	1232.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6613.1	0.0	6613.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	7845.7	0.0	7845.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.7
10°-20°	422.6	5.4
20°-30°	766.3	9.8
30°-40°	1321.6	16.8
40°-50°	2147.0	27.4
50°-60°	2263.0	28.8
60°-70°	691.4	8.8
70°-80°	88.6	1.1
80°-90°	13.5	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°	7845.7	100.0
0°-180°	7845.7	100.0

Coefficient of Utilization

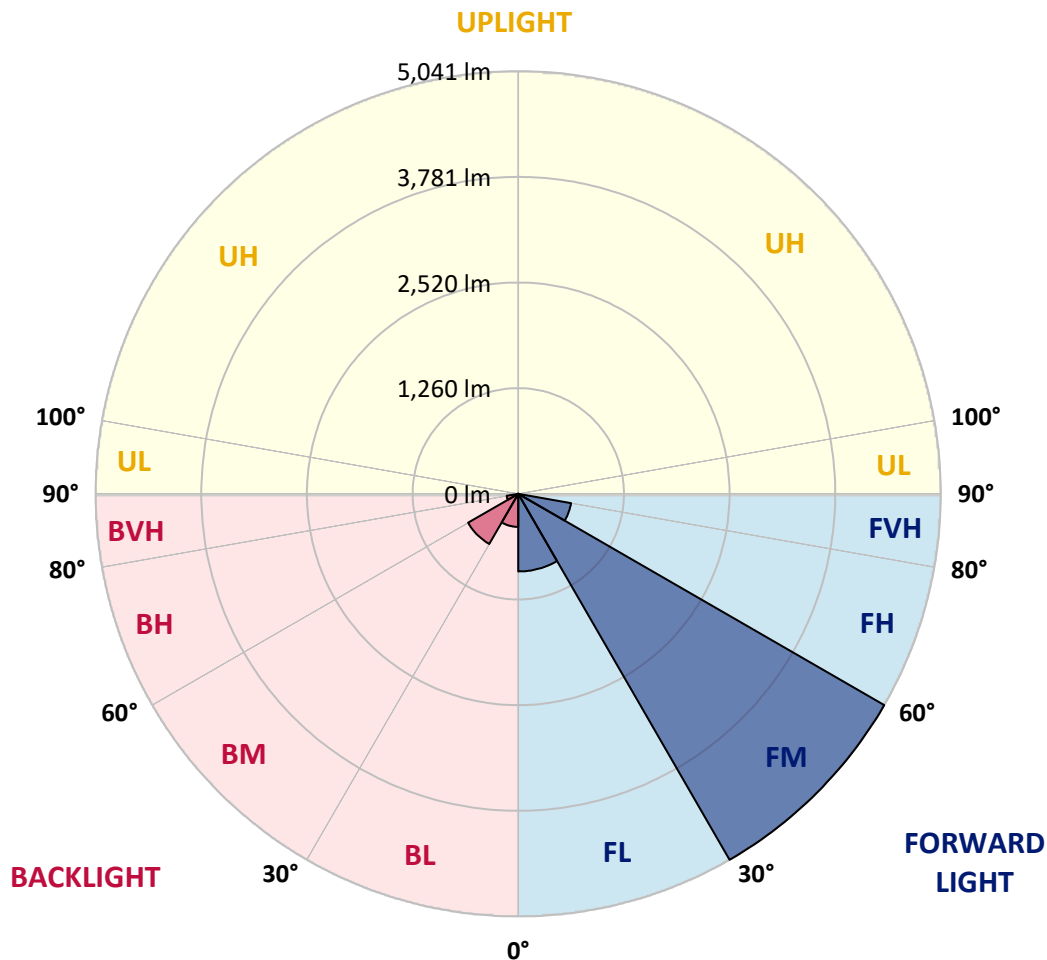


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.2	11.8			
FM (30°-60°)	5040.8	64.2			
FH (60°-80°)	639.5	8.2			G0/660
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	394.3	5.0	B1/500		
BM (30°-60°)	690.8	8.8	B1/1000		
BH (60°-80°)	140.6	1.8	B1/500		G1/500
BVH (80°-90°)	6.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9
2.5°	1504.1	1469.4	1470.8	1467.9	1463.6	1447.7	1399.9	1392.7	1360.9	1352.2	1323.3
5°	1684.9	1654.5	1671.8	1645.8	1621.2	1606.7	1528.7	1492.5	1441.9	1423.1	1382.5
7.5°	1797.6	1783.2	1777.4	1778.8	1755.7	1719.5	1684.9	1605.3	1537.3	1522.9	1437.5
10°	1852.6	1843.9	1852.6	1848.3	1858.4	1862.7	1802.0	1754.2	1654.5	1629.9	1496.8
12.5°	1865.6	1883.0	1890.2	1909.0	1933.5	1975.5	1971.2	1906.1	1773.0	1757.1	1587.9
15°	1897.4	1911.9	1904.6	1935.0	1981.3	2052.2	2089.7	2079.6	1936.4	1907.5	1693.5
17.5°	1926.3	1900.3	1924.9	1985.6	2031.9	2140.4	2231.5	2273.4	2114.3	2081.1	1790.4
20°	1965.4	1958.1	1953.8	1984.2	2066.7	2211.3	2392.0	2468.6	2313.9	2279.2	1929.2
22.5°	2084.0	2085.4	2082.5	2037.7	2097.0	2260.4	2532.3	2721.8	2552.6	2523.6	2086.9
25°	2240.2	2221.4	2206.9	2170.8	2163.5	2305.2	2674.0	3031.2	2838.9	2818.6	2257.5
27.5°	2405.1	2405.1	2361.7	2328.4	2282.1	2416.6	2804.2	3332.1	3184.5	3157.1	2406.5
30°	2584.4	2594.5	2588.7	2517.8	2488.9	2538.1	2937.3	3716.7	3580.8	3546.1	2652.3
32.5°	2849.0	2827.3	2851.9	2792.6	2707.3	2750.7	3147.0	4061.0	4095.6	4046.5	2974.9
35°	3199.0	3185.9	3170.1	3073.2	2972.0	3006.6	3443.4	4484.7	4742.1	4717.5	3300.3
37.5°	3512.9	3505.6	3492.6	3426.1	3308.9	3350.8	3780.4	4925.8	5372.6	5291.7	3760.1
40°	3842.6	3881.6	3839.7	3780.4	3673.4	3765.9	4176.6	5187.5	5903.4	5805.1	4111.5
42.5°	4289.4	4259.1	4277.8	4169.4	4111.5	4212.8	4574.4	5449.3	6315.6	6198.5	4484.7
45°	4765.3	4766.7	4716.1	4681.3	4531.0	4640.8	4818.7	5593.9	6643.8	6552.8	4766.7
47.5°	5070.4	5068.9	5123.9	5178.8	5024.1	4915.7	4985.0	5731.3	6813.0	6771.1	4869.4
50°	5022.6	5037.1	5108.0	5313.4	5394.3	5248.3	5141.3	5690.8	6889.7	6885.4	4957.6
52.5°	4369.0	4416.7	4535.3	4831.7	5239.6	5420.4	5304.7	5766.0	6927.3	6934.6	5089.2
55°	3326.3	3352.3	3577.9	3938.0	4389.3	5008.2	5239.6	5825.3	6956.3	6969.2	5248.3
56°	2885.2	2815.7	3141.2	3397.1	3936.5	4613.4	5074.7	5779.0	6938.9	7038.7	5327.8
57.5°	2178.0	2131.7	2394.9	2714.5	3233.7	3948.1	4562.8	5560.6	6821.7	6820.3	5213.5
60°	1324.8	1278.5	1480.9	1668.9	1959.6	2431.1	3083.3	4428.3	5767.4	5888.9	4221.5
62.5°	788.2	817.1	1016.6	1131.0	1224.9	1274.1	1595.1	2632.1	3848.4	3935.1	2619.1
65°	525.0	535.1	685.5	873.5	915.5	728.9	649.3	1065.8	1668.9	1615.4	1080.3
67.5°	323.9	347.1	459.9	656.5	727.4	532.2	308.0	397.7	459.9	459.9	312.4
70°	196.7	208.3	306.6	446.9	498.9	342.7	224.2	224.2	221.3	217.0	186.6
72.5°	94.0	101.2	156.2	230.0	234.3	180.8	173.5	189.5	185.1	183.7	154.7
75°	40.5	43.4	55.0	72.3	82.4	76.7	105.5	135.9	140.3	135.9	111.3
77.5°	13.0	14.5	20.3	26.0	27.5	33.3	44.9	56.4	65.1	60.8	55.0
80°	1.4	2.9	5.8	13.0	20.3	26.0	33.3	37.6	42.0	42.0	39.1
82.5°	1.4	1.4	5.8	11.6	18.8	24.6	31.8	36.2	42.0	43.4	40.5
85°	0.0	1.4	4.3	10.1	15.9	15.9	14.5	14.5	10.1	10.1	10.1
87.5°	0.0	0.0	1.4	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9	1305.9
2.5°	1317.5	1314.6	1275.6	1251.0	1237.9	1211.9	1196.0	1184.4	1175.8	1165.7	1167.1
5°	1334.9	1324.8	1259.6	1214.8	1161.3	1132.4	1107.8	1087.5	1074.5	1071.6	1065.8
7.5°	1384.0	1330.5	1232.1	1151.2	1083.2	1054.3	1032.6	1019.5	1025.3	1012.3	1022.4
10°	1421.6	1342.1	1198.9	1081.8	1013.8	992.1	980.6	990.7	1005.1	999.3	992.1
12.5°	1467.9	1353.7	1145.4	1015.2	951.6	935.7	956.0	974.8	1003.6	1015.2	1000.8
15°	1520.0	1366.6	1077.4	938.6	898.1	911.1	945.8	979.1	1008.0	1022.4	1031.1
17.5°	1583.6	1362.3	1010.9	877.8	847.4	885.1	927.0	957.4	1000.8	1022.4	1016.6
20°	1642.9	1347.9	937.2	817.1	818.5	853.2	888.0	937.2	960.3	989.2	979.1
22.5°	1699.3	1321.9	860.5	775.2	775.2	828.6	846.0	877.8	898.1	912.6	911.1
25°	1778.8	1272.7	796.9	734.7	752.0	786.8	801.2	811.3	802.7	814.2	815.7
27.5°	1835.2	1222.0	744.8	698.5	730.3	756.4	752.0	746.3	726.0	710.1	720.2
30°	1896.0	1162.8	699.9	673.9	691.3	714.4	697.1	679.7	647.9	621.9	623.3
32.5°	1982.7	1135.3	660.9	645.0	668.1	671.0	652.2	626.2	594.4	569.8	568.4
35°	2144.7	1117.9	627.7	626.2	630.5	632.0	613.2	581.4	568.4	548.1	555.3
37.5°	2306.7	1109.3	604.5	598.8	597.3	598.8	577.1	546.7	571.3	569.8	572.7
40°	2513.5	1148.3	571.3	564.0	565.5	565.5	538.0	529.3	572.7	577.1	578.5
42.5°	2723.2	1197.4	549.6	526.4	532.2	532.2	517.7	507.6	538.0	509.0	504.7
45°	2905.4	1269.8	526.4	488.8	503.3	510.5	506.2	488.8	470.0	420.9	420.9
47.5°	2964.8	1333.4	498.9	452.7	464.2	496.0	483.0	446.9	413.6	373.1	370.2
50°	3068.8	1402.8	477.2	410.7	435.3	474.3	461.3	425.2	387.6	358.7	360.1
52.5°	3175.8	1482.4	436.8	361.6	391.9	457.0	457.0	416.5	358.7	338.4	335.5
55°	3336.4	1479.5	364.4	296.4	350.0	431.0	438.2	373.1	321.0	305.1	305.1
56°	3359.5	1412.9	328.3	277.7	331.2	423.8	425.2	361.6	306.6	289.2	289.2
57.5°	3185.9	1275.6	287.8	254.6	308.0	410.7	412.2	351.4	295.0	270.4	267.6
60°	2451.3	863.4	240.1	227.1	279.1	370.2	377.5	319.6	258.9	240.1	238.7
62.5°	1384.0	478.7	211.2	205.4	240.1	315.2	337.0	279.1	219.8	209.7	212.6
65°	632.0	263.2	177.9	166.3	193.8	243.0	271.9	230.0	180.8	169.2	169.2
67.5°	231.4	179.3	151.8	131.6	135.9	157.6	176.4	148.9	120.0	102.7	107.0
70°	164.9	150.4	133.0	114.2	105.5	102.7	101.2	83.9	59.3	46.3	49.2
72.5°	133.0	124.3	111.3	96.9	82.4	69.5	59.3	43.4	27.5	18.8	17.4
75°	95.4	91.1	81.0	69.5	57.9	49.2	40.5	27.5	14.5	7.2	7.2
77.5°	49.2	49.2	47.8	43.4	36.2	28.9	23.2	15.9	8.7	2.9	2.9
80°	37.6	40.5	42.0	37.6	33.3	26.0	18.8	11.6	5.8	1.4	1.4
82.5°	36.2	42.0	44.9	39.1	33.3	24.6	18.8	11.6	5.8	1.4	1.4
85°	8.7	8.7	13.0	14.5	18.8	20.3	15.9	10.1	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	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)