

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: P527719

Luminaire Tested: **GALN-SA2D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527719
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-SA2D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 8358 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

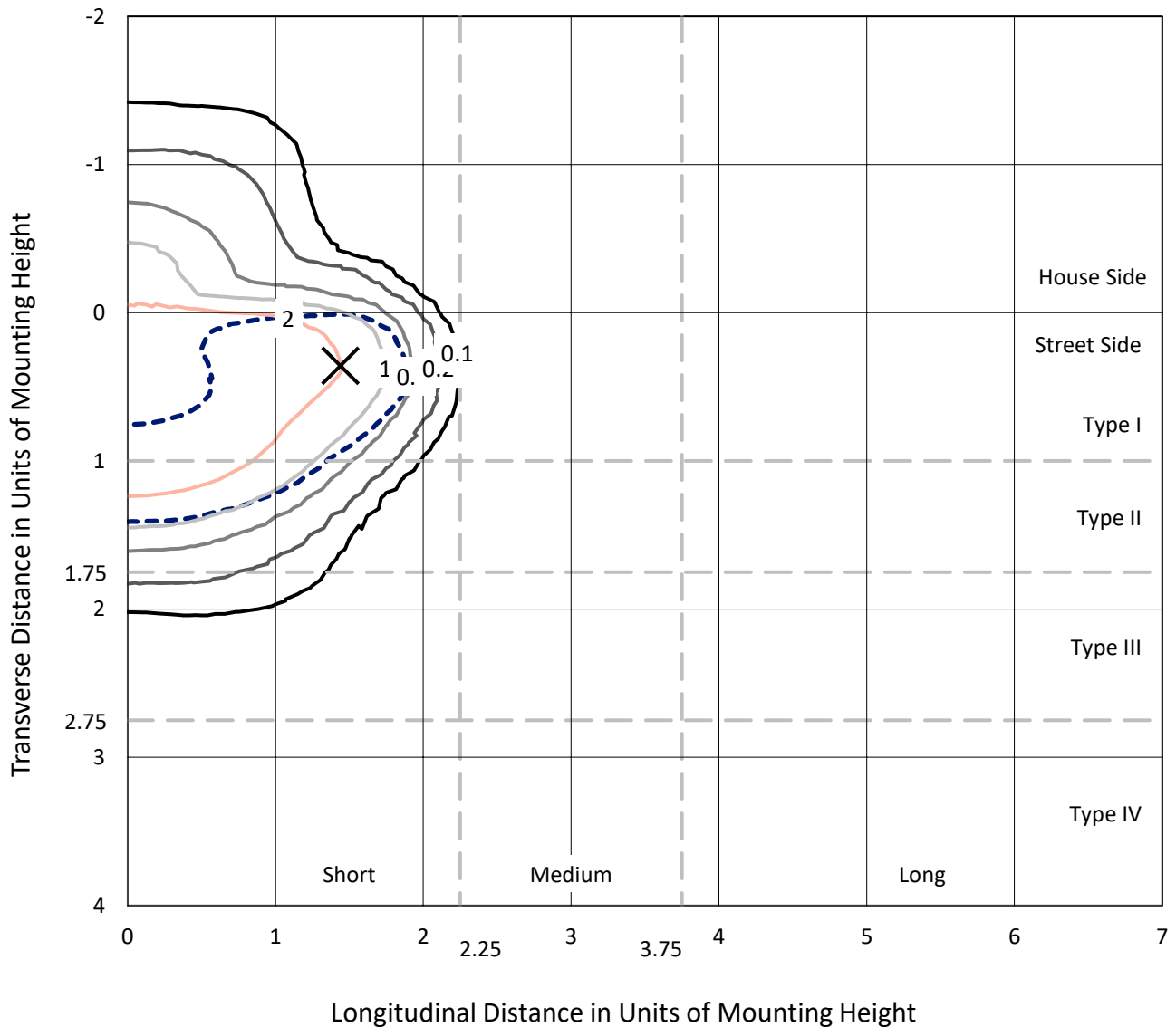
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

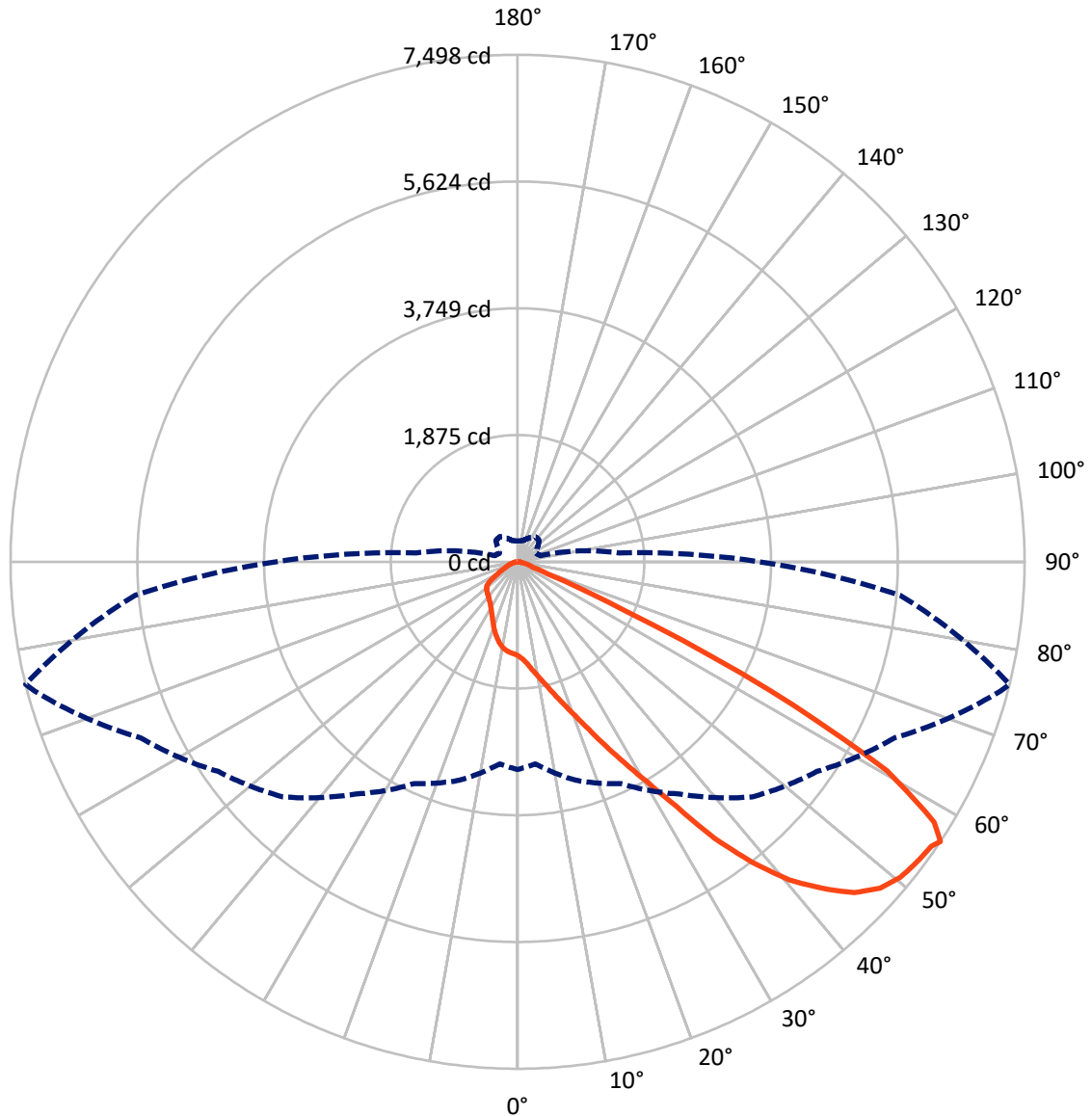
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1313.0	0.0	1313.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	7045.0	0.0	7045.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	8358.0	0.0	8358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	1.7
10°-20°	450.2	5.4
20°-30°	816.4	9.8
30°-40°	1407.9	16.8
40°-50°	2287.2	27.4
50°-60°	2410.8	28.8
60°-70°	736.6	8.8
70°-80°	94.4	1.1
80°-90°	14.3	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°	8358.0	100.0
0°-180°	8358.0	100.0

Coefficient of Utilization

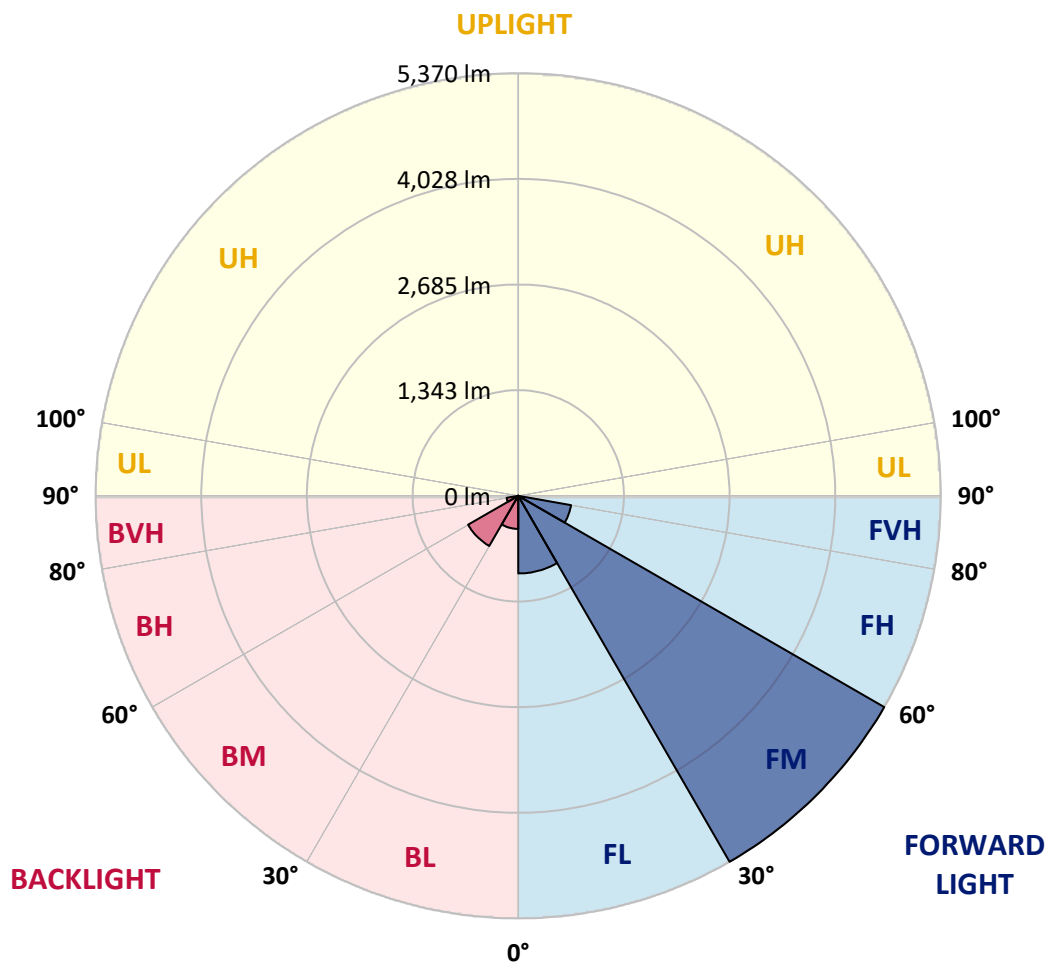


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.7	11.8			
FM (30°-60°)	5370.0	64.2			
FH (60°-80°)	681.2	8.2			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	420.0	5.0	B1/500		
BM (30°-60°)	735.9	8.8	B1/1000		
BH (60°-80°)	149.8	1.8	B1/500		G1/500
BVH (80°-90°)	7.3	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°	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2
2.5°	1602.3	1565.3	1566.8	1563.8	1559.1	1542.2	1491.3	1483.6	1449.7	1440.5	1409.7
5°	1794.9	1762.5	1781.0	1753.3	1727.1	1711.7	1628.5	1589.9	1536.0	1516.0	1472.9
7.5°	1915.0	1899.6	1893.5	1895.0	1870.3	1831.8	1794.9	1710.1	1637.7	1622.3	1531.4
10°	1973.6	1964.3	1973.6	1968.9	1979.7	1984.3	1919.6	1868.8	1762.5	1736.3	1594.6
12.5°	1987.4	2005.9	2013.6	2033.7	2059.8	2104.5	2099.9	2030.6	1888.8	1871.9	1691.6
15°	2021.3	2036.7	2029.0	2061.4	2110.7	2186.2	2226.2	2215.4	2062.9	2032.1	1804.1
17.5°	2052.1	2024.4	2050.6	2115.3	2164.6	2280.2	2377.2	2421.9	2252.4	2217.0	1907.3
20°	2093.7	2086.0	2081.4	2113.8	2201.6	2355.6	2548.2	2629.9	2465.0	2428.1	2055.2
22.5°	2220.1	2221.6	2218.5	2170.8	2233.9	2408.0	2697.7	2899.5	2719.2	2688.4	2223.1
25°	2386.5	2366.4	2351.0	2312.5	2304.8	2455.8	2848.7	3229.2	3024.3	3002.7	2404.9
27.5°	2562.1	2562.1	2515.9	2480.4	2431.1	2574.4	2987.3	3549.6	3392.5	3363.2	2563.6
30°	2753.1	2763.9	2757.8	2682.3	2651.4	2703.8	3129.0	3959.5	3814.6	3777.7	2825.5
32.5°	3035.1	3012.0	3038.2	2975.0	2884.1	2930.3	3352.4	4326.1	4363.1	4310.7	3169.1
35°	3407.9	3394.0	3377.1	3273.9	3166.0	3203.0	3668.3	4777.5	5051.8	5025.6	3515.7
37.5°	3742.2	3734.5	3720.7	3649.8	3525.0	3569.7	4027.2	5247.4	5723.5	5637.2	4005.7
40°	4093.5	4135.1	4090.4	4027.2	3913.2	4011.8	4449.4	5526.3	6288.9	6184.1	4380.1
42.5°	4569.6	4537.2	4557.2	4441.7	4380.1	4487.9	4873.1	5805.1	6728.0	6603.2	4777.5
45°	5076.4	5078.0	5024.0	4987.1	4826.8	4943.9	5133.4	5959.2	7077.7	6980.7	5078.0
47.5°	5401.5	5400.0	5458.5	5517.0	5352.2	5236.6	5310.6	6105.6	7258.0	7213.3	5187.3
50°	5350.7	5366.1	5441.6	5660.3	5746.6	5591.0	5477.0	6062.4	7339.6	7335.0	5281.3
52.5°	4654.3	4705.1	4831.5	5147.3	5581.8	5774.3	5651.1	6142.5	7379.7	7387.4	5421.5
55°	3543.5	3571.2	3811.6	4195.2	4675.9	5335.3	5581.8	6205.7	7410.5	7424.4	5591.0
56°	3073.6	2999.6	3346.3	3619.0	4193.6	4914.7	5406.1	6156.4	7392.0	7498.3	5675.7
57.5°	2320.2	2270.9	2551.3	2891.8	3444.9	4206.0	4860.7	5923.8	7267.2	7265.7	5554.0
60°	1411.2	1361.9	1577.6	1777.9	2087.6	2589.8	3284.7	4717.5	6144.1	6273.5	4497.1
62.5°	839.7	870.5	1083.1	1204.8	1304.9	1357.3	1699.3	2804.0	4099.7	4192.1	2790.1
65°	559.3	570.0	730.3	930.5	975.2	776.5	691.7	1135.5	1777.9	1720.9	1150.9
67.5°	345.1	369.8	489.9	699.5	774.9	567.0	328.2	423.7	489.9	489.9	332.8
70°	209.5	221.9	326.6	476.1	531.5	365.1	238.8	238.8	235.7	231.1	198.7
72.5°	100.1	107.8	166.4	245.0	249.6	192.6	184.9	201.8	197.2	195.7	164.8
75°	43.1	46.2	58.5	77.0	87.8	81.7	112.5	144.8	149.4	144.8	118.6
77.5°	13.9	15.4	21.6	27.7	29.3	35.4	47.8	60.1	69.3	64.7	58.5
80°	1.5	3.1	6.2	13.9	21.6	27.7	35.4	40.1	44.7	44.7	41.6
82.5°	1.5	1.5	6.2	12.3	20.0	26.2	33.9	38.5	44.7	46.2	43.1
85°	0.0	1.5	4.6	10.8	16.9	16.9	15.4	15.4	10.8	10.8	10.8
87.5°	0.0	0.0	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2
2.5°	1403.5	1400.4	1358.8	1332.7	1318.8	1291.1	1274.1	1261.8	1252.5	1241.8	1243.3
5°	1422.0	1411.2	1341.9	1294.1	1237.1	1206.3	1180.1	1158.6	1144.7	1141.6	1135.5
7.5°	1474.4	1417.4	1312.6	1226.4	1153.9	1123.1	1100.0	1086.2	1092.3	1078.5	1089.2
10°	1514.5	1429.7	1277.2	1152.4	1080.0	1056.9	1044.6	1055.3	1070.7	1064.6	1056.9
12.5°	1563.8	1442.0	1220.2	1081.5	1013.7	996.8	1018.4	1038.4	1069.2	1081.5	1066.1
15°	1619.2	1455.9	1147.8	999.9	956.7	970.6	1007.6	1043.0	1073.8	1089.2	1098.5
17.5°	1687.0	1451.3	1076.9	935.2	902.8	942.9	987.6	1019.9	1066.1	1089.2	1083.1
20°	1750.2	1435.9	998.3	870.5	872.0	909.0	946.0	998.3	1023.0	1053.8	1043.0
22.5°	1810.3	1408.1	916.7	825.8	825.8	882.8	901.3	935.2	956.7	972.1	970.6
25°	1895.0	1355.8	848.9	782.6	801.1	838.1	853.5	864.3	855.1	867.4	868.9
27.5°	1955.1	1301.8	793.4	744.1	778.0	805.8	801.1	795.0	773.4	756.5	767.2
30°	2019.8	1238.7	745.7	717.9	736.4	761.1	742.6	724.1	690.2	662.5	664.0
32.5°	2112.2	1209.4	704.1	687.1	711.8	714.9	694.8	667.1	633.2	607.0	605.5
35°	2284.8	1190.9	668.6	667.1	671.7	673.3	653.2	619.3	605.5	583.9	591.6
37.5°	2457.3	1181.7	644.0	637.8	636.3	637.8	614.7	582.4	608.6	607.0	610.1
40°	2677.6	1223.3	608.6	600.9	602.4	602.4	573.1	563.9	610.1	614.7	616.3
42.5°	2901.0	1275.7	585.4	560.8	567.0	567.0	551.6	540.8	573.1	542.3	537.7
45°	3095.2	1352.7	560.8	520.7	536.1	543.8	539.2	520.7	500.7	448.3	448.3
47.5°	3158.3	1420.5	531.5	482.2	494.5	528.4	514.6	476.1	440.6	397.5	394.4
50°	3269.2	1494.4	508.4	437.5	463.7	505.3	491.5	452.9	412.9	382.1	383.6
52.5°	3383.3	1579.2	465.3	385.2	417.5	486.8	486.8	443.7	382.1	360.5	357.4
55°	3554.3	1576.1	388.2	315.8	372.8	459.1	466.8	397.5	342.0	325.1	325.1
56°	3578.9	1505.2	349.7	295.8	352.8	451.4	452.9	385.2	326.6	308.1	308.1
57.5°	3394.0	1358.8	306.6	271.2	328.2	437.5	439.1	374.4	314.3	288.1	285.0
60°	2611.4	919.8	255.7	241.9	297.3	394.4	402.1	340.5	275.8	255.7	254.2
62.5°	1474.4	510.0	224.9	218.8	255.7	335.9	359.0	297.3	234.2	223.4	226.5
65°	673.3	280.4	189.5	177.2	206.4	258.8	289.6	245.0	192.6	180.3	180.3
67.5°	246.5	191.0	161.8	140.2	144.8	167.9	188.0	158.7	127.9	109.4	114.0
70°	175.6	160.2	141.7	121.7	112.5	109.4	107.8	89.4	63.2	49.3	52.4
72.5°	141.7	132.5	118.6	103.2	87.8	74.0	63.2	46.2	29.3	20.0	18.5
75°	101.7	97.1	86.3	74.0	61.6	52.4	43.1	29.3	15.4	7.7	7.7
77.5°	52.4	52.4	50.8	46.2	38.5	30.8	24.7	16.9	9.2	3.1	3.1
80°	40.1	43.1	44.7	40.1	35.4	27.7	20.0	12.3	6.2	1.5	1.5
82.5°	38.5	44.7	47.8	41.6	35.4	26.2	20.0	12.3	6.2	1.5	1.5
85°	9.2	9.2	13.9	15.4	20.0	21.6	16.9	10.8	4.6	1.5	1.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	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)