

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: P527251

Luminaire Tested: **GALN-SA2B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527251
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-SA2B-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 6148 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

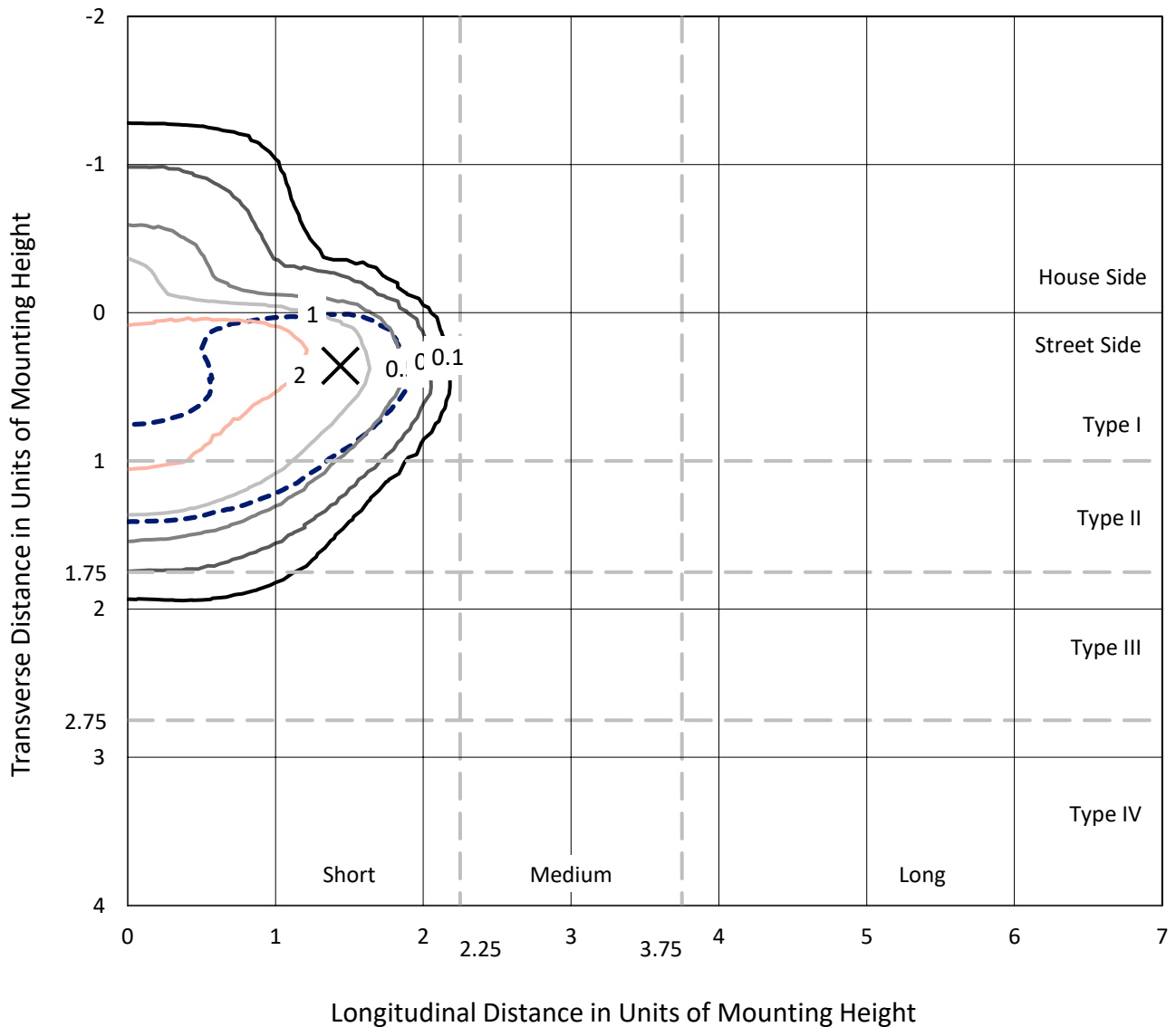
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

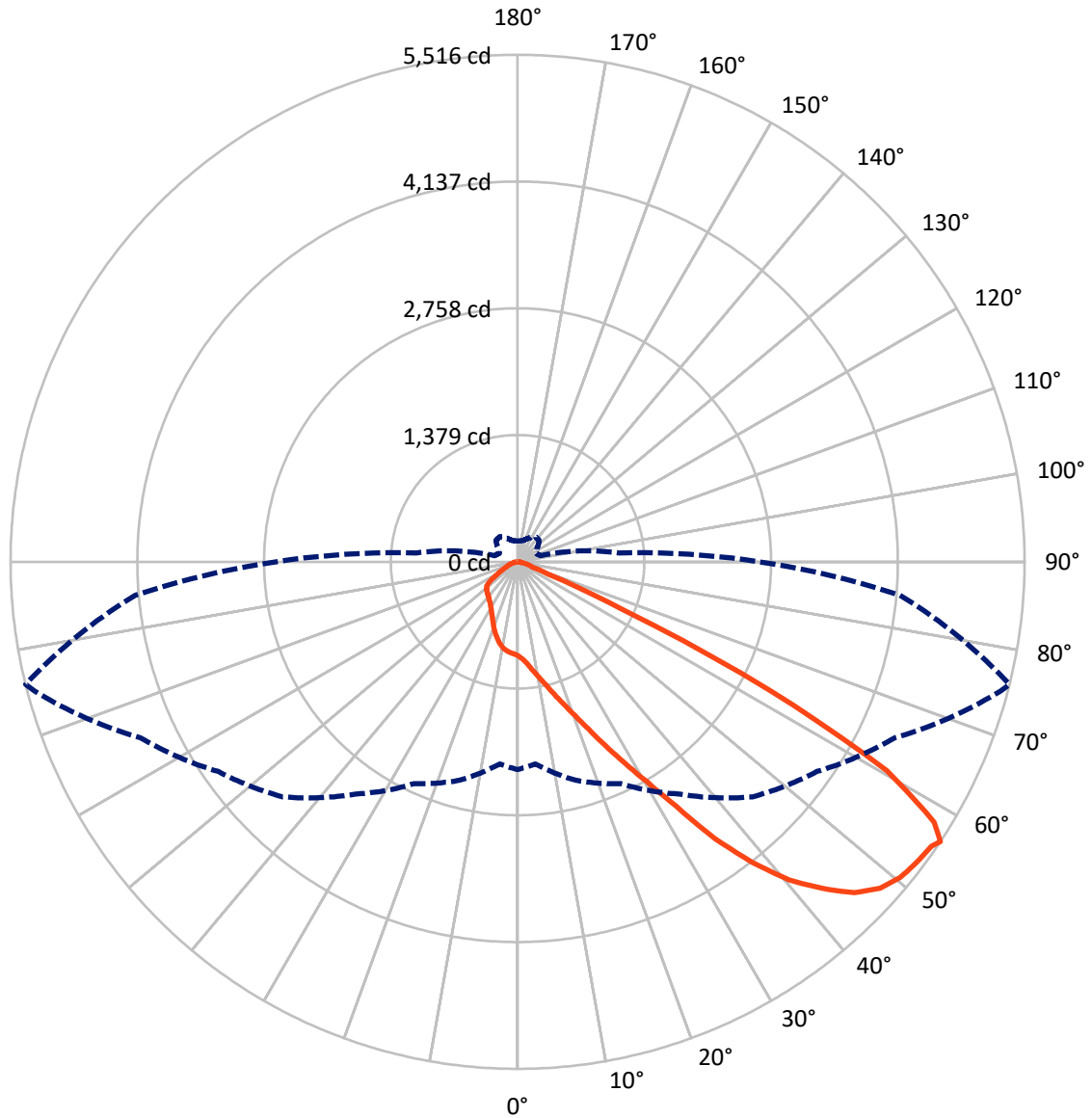
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	965.8	0.0	965.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5182.2	0.0	5182.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	6148.0	0.0	6148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	1.7
10°-20°	331.2	5.4
20°-30°	600.5	9.8
30°-40°	1035.6	16.8
40°-50°	1682.4	27.4
50°-60°	1773.3	28.8
60°-70°	541.8	8.8
70°-80°	69.5	1.1
80°-90°	10.6	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°	6148.0	100.0
0°-180°	6148.0	100.0

Coefficient of Utilization

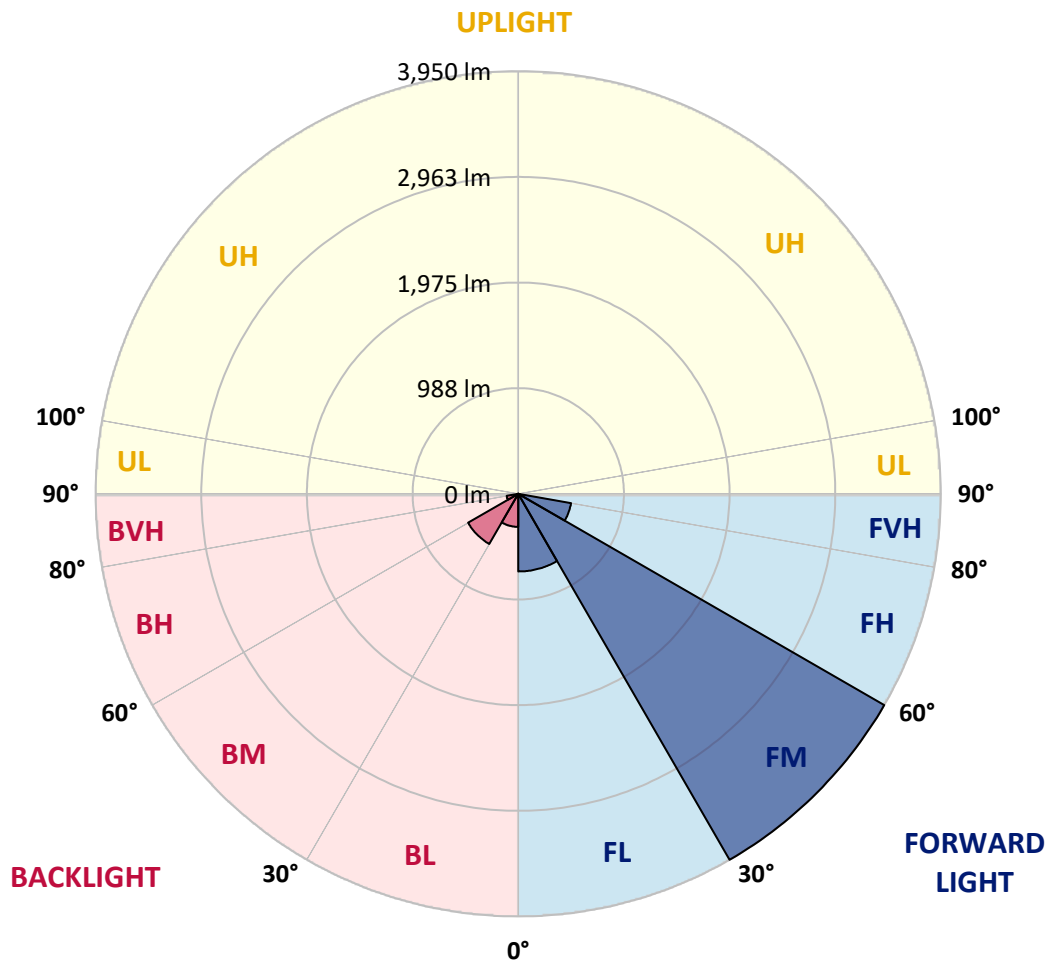


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.8	11.8			
FM (30°-60°)	3950.1	64.2			
FH (60°-80°)	501.1	8.2			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	309.0	5.0	B1/500		
BM (30°-60°)	541.3	8.8	B1/1000		
BH (60°-80°)	110.2	1.8	B1/500		G1/500
BVH (80°-90°)	5.4	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°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1178.6	1151.4	1152.5	1150.3	1146.9	1134.4	1097.0	1091.3	1066.4	1059.6	1036.9
5°	1320.3	1296.5	1310.1	1289.7	1270.4	1259.1	1197.9	1169.5	1129.9	1115.1	1083.4
7.5°	1408.7	1397.3	1392.8	1393.9	1375.8	1347.5	1320.3	1257.9	1204.7	1193.3	1126.5
10°	1451.7	1444.9	1451.7	1448.3	1456.3	1459.7	1412.1	1374.7	1296.5	1277.2	1172.9
12.5°	1461.9	1475.5	1481.2	1495.9	1515.2	1548.0	1544.6	1493.7	1389.4	1376.9	1244.3
15°	1486.9	1498.2	1492.5	1516.3	1552.6	1608.1	1637.6	1629.6	1517.5	1494.8	1327.1
17.5°	1509.5	1489.1	1508.4	1556.0	1592.2	1677.2	1748.6	1781.5	1656.8	1630.8	1403.0
20°	1540.1	1534.4	1531.0	1554.8	1619.4	1732.8	1874.4	1934.5	1813.2	1786.0	1511.8
22.5°	1633.0	1634.2	1631.9	1596.8	1643.2	1771.3	1984.4	2132.8	2000.2	1977.6	1635.3
25°	1755.4	1740.7	1729.4	1701.0	1695.4	1806.4	2095.4	2375.3	2224.6	2208.7	1769.0
27.5°	1884.6	1884.6	1850.6	1824.6	1788.3	1893.7	2197.4	2611.1	2495.5	2473.9	1885.8
30°	2025.2	2033.1	2028.6	1973.0	1950.4	1988.9	2301.7	2912.5	2806.0	2778.8	2078.4
32.5°	2232.5	2215.5	2234.8	2188.3	2121.5	2155.5	2466.0	3182.2	3209.4	3170.9	2331.1
35°	2506.8	2496.6	2484.1	2408.2	2328.9	2356.1	2698.3	3514.3	3716.0	3696.7	2586.1
37.5°	2752.7	2747.0	2736.8	2684.7	2592.9	2625.8	2962.4	3859.9	4210.1	4146.6	2946.5
40°	3011.1	3041.7	3008.8	2962.4	2878.5	2951.0	3272.9	4065.0	4626.0	4549.0	3221.9
42.5°	3361.3	3337.5	3352.2	3267.2	3221.9	3301.2	3584.5	4270.2	4949.0	4857.2	3514.3
45°	3734.1	3735.3	3695.6	3668.4	3550.5	3636.7	3776.1	4383.5	5206.2	5134.9	3735.3
47.5°	3973.2	3972.1	4015.2	4058.2	3937.0	3852.0	3906.4	4491.2	5338.8	5306.0	3815.7
50°	3935.9	3947.2	4002.7	4163.6	4227.1	4112.6	4028.8	4459.4	5398.9	5395.5	3884.9
52.5°	3423.6	3461.0	3553.9	3786.3	4105.8	4247.5	4156.8	4518.4	5428.4	5434.0	3988.0
55°	2606.5	2626.9	2803.7	3085.9	3439.5	3924.5	4105.8	4564.8	5451.0	5461.2	4112.6
56°	2260.9	2206.5	2461.5	2662.1	3084.8	3615.1	3976.6	4528.6	5437.4	5515.6	4175.0
57.5°	1706.7	1670.4	1876.7	2127.1	2534.0	3093.8	3575.5	4357.4	5345.6	5344.5	4085.4
60°	1038.1	1001.8	1160.5	1307.8	1535.6	1905.0	2416.1	3470.1	4519.5	4614.7	3308.0
62.5°	617.6	640.3	796.7	886.2	959.9	998.4	1250.0	2062.6	3015.6	3083.6	2052.4
65°	411.4	419.3	537.2	684.5	717.4	571.2	508.8	835.2	1307.8	1265.9	846.6
67.5°	253.9	272.0	360.4	514.5	570.0	417.0	241.4	311.6	360.4	360.4	244.8
70°	154.1	163.2	240.3	350.2	391.0	268.6	175.7	175.7	173.4	170.0	146.2
72.5°	73.7	79.3	122.4	180.2	183.6	141.7	136.0	148.5	145.1	143.9	121.3
75°	31.7	34.0	43.1	56.7	64.6	60.1	82.7	106.5	109.9	106.5	87.3
77.5°	10.2	11.3	15.9	20.4	21.5	26.1	35.1	44.2	51.0	47.6	43.1
80°	1.1	2.3	4.5	10.2	15.9	20.4	26.1	29.5	32.9	32.9	30.6
82.5°	1.1	1.1	4.5	9.1	14.7	19.3	24.9	28.3	32.9	34.0	31.7
85°	0.0	1.1	3.4	7.9	12.5	12.5	11.3	11.3	7.9	7.9	7.9
87.5°	0.0	0.0	1.1	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1032.4	1030.1	999.5	980.3	970.1	949.7	937.2	928.1	921.3	913.4	914.5
5°	1046.0	1038.1	987.1	951.9	910.0	887.4	868.1	852.2	842.0	839.8	835.2
7.5°	1084.5	1042.6	965.5	902.1	848.8	826.2	809.2	799.0	803.5	793.3	801.2
10°	1114.0	1051.7	939.5	847.7	794.4	777.4	768.4	776.3	787.6	783.1	777.4
12.5°	1150.3	1060.7	897.6	795.6	745.7	733.2	749.1	763.8	786.5	795.6	784.2
15°	1191.1	1070.9	844.3	735.5	703.8	714.0	741.2	767.2	789.9	801.2	808.0
17.5°	1240.9	1067.5	792.2	687.9	664.1	693.6	726.4	750.2	784.2	801.2	796.7
20°	1287.4	1056.2	734.4	640.3	641.4	668.6	695.8	734.4	752.5	775.2	767.2
22.5°	1331.6	1035.8	674.3	607.4	607.4	649.4	663.0	687.9	703.8	715.1	714.0
25°	1393.9	997.3	624.4	575.7	589.3	616.5	627.8	635.8	629.0	638.0	639.2
27.5°	1438.1	957.6	583.6	547.4	572.3	592.7	589.3	584.8	568.9	556.4	564.4
30°	1485.7	911.1	548.5	528.1	541.7	559.8	546.2	532.6	507.7	487.3	488.4
32.5°	1553.7	889.6	517.9	505.4	523.6	525.8	511.1	490.7	465.8	446.5	445.4
35°	1680.6	876.0	491.8	490.7	494.1	495.2	480.5	455.6	445.4	429.5	435.2
37.5°	1807.6	869.2	473.7	469.2	468.0	469.2	452.2	428.4	447.6	446.5	448.8
40°	1969.6	899.8	447.6	442.0	443.1	443.1	421.6	414.8	448.8	452.2	453.3
42.5°	2133.9	938.3	430.6	412.5	417.0	417.0	405.7	397.8	421.6	398.9	395.5
45°	2276.7	995.0	412.5	383.0	394.4	400.0	396.6	383.0	368.3	329.8	329.8
47.5°	2323.2	1044.9	391.0	354.7	363.8	388.7	378.5	350.2	324.1	292.4	290.1
50°	2404.8	1099.3	374.0	321.8	341.1	371.7	361.5	333.2	303.7	281.1	282.2
52.5°	2488.7	1161.6	342.2	283.3	307.1	358.1	358.1	326.4	281.1	265.2	262.9
55°	2614.5	1159.3	285.6	232.3	274.3	337.7	343.4	292.4	251.6	239.1	239.1
56°	2632.6	1107.2	257.3	217.6	259.5	332.0	333.2	283.3	240.3	226.7	226.7
57.5°	2496.6	999.5	225.5	199.5	241.4	321.8	323.0	275.4	231.2	211.9	209.7
60°	1920.9	676.6	188.1	177.9	218.7	290.1	295.8	250.5	202.9	188.1	187.0
62.5°	1084.5	375.1	165.5	160.9	188.1	247.1	264.1	218.7	172.3	164.3	166.6
65°	495.2	206.3	139.4	130.3	151.9	190.4	213.1	180.2	141.7	132.6	132.6
67.5°	181.3	140.5	119.0	103.1	106.5	123.5	138.3	116.7	94.1	80.5	83.9
70°	129.2	117.9	104.3	89.5	82.7	80.5	79.3	65.7	46.5	36.3	38.5
72.5°	104.3	97.5	87.3	75.9	64.6	54.4	46.5	34.0	21.5	14.7	13.6
75°	74.8	71.4	63.5	54.4	45.3	38.5	31.7	21.5	11.3	5.7	5.7
77.5°	38.5	38.5	37.4	34.0	28.3	22.7	18.1	12.5	6.8	2.3	2.3
80°	29.5	31.7	32.9	29.5	26.1	20.4	14.7	9.1	4.5	1.1	1.1
82.5°	28.3	32.9	35.1	30.6	26.1	19.3	14.7	9.1	4.5	1.1	1.1
85°	6.8	6.8	10.2	11.3	14.7	15.9	12.5	7.9	3.4	1.1	1.1
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	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)