

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: P527257

Luminaire Tested: **GALN-SA2B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6338 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

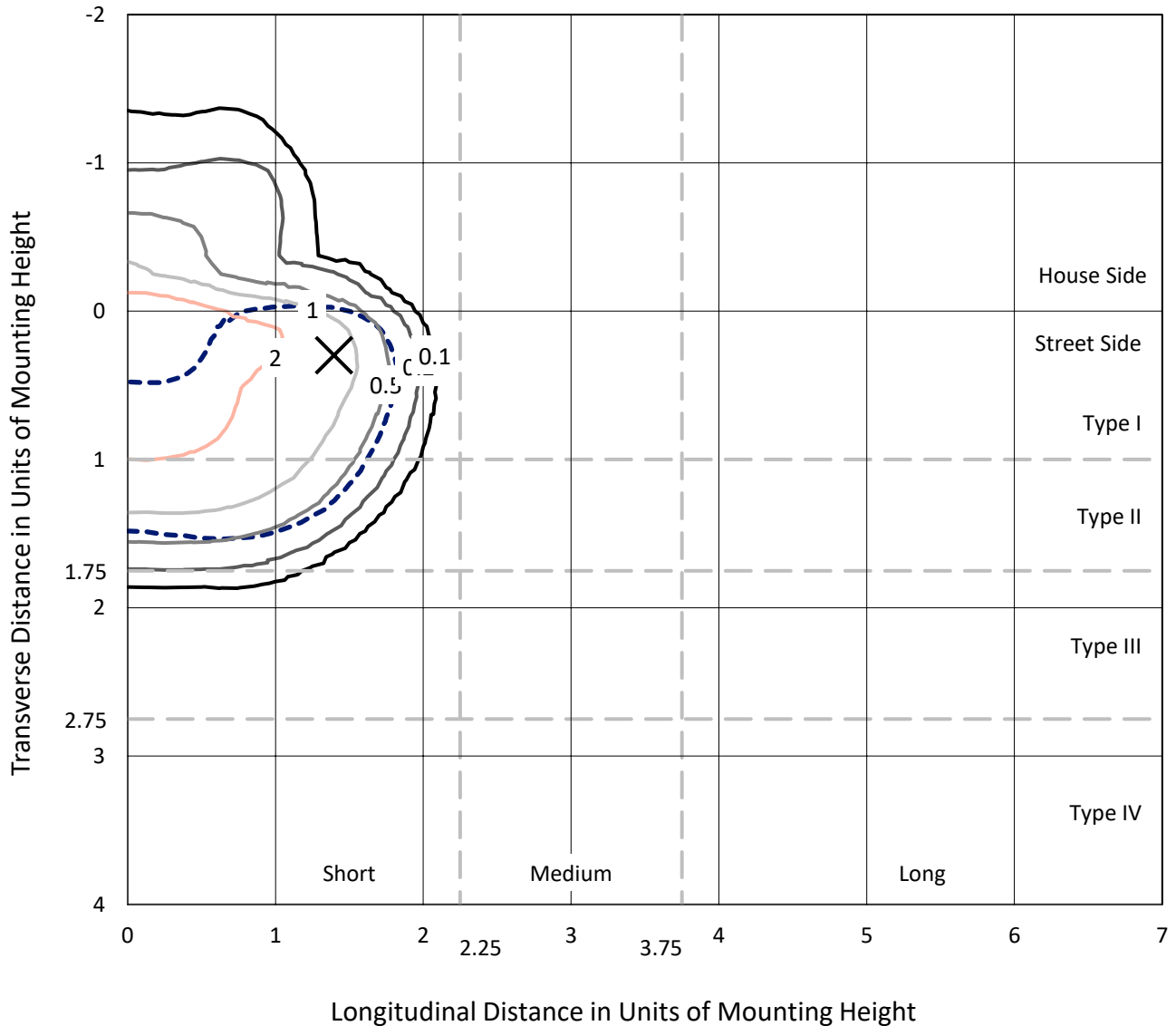
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

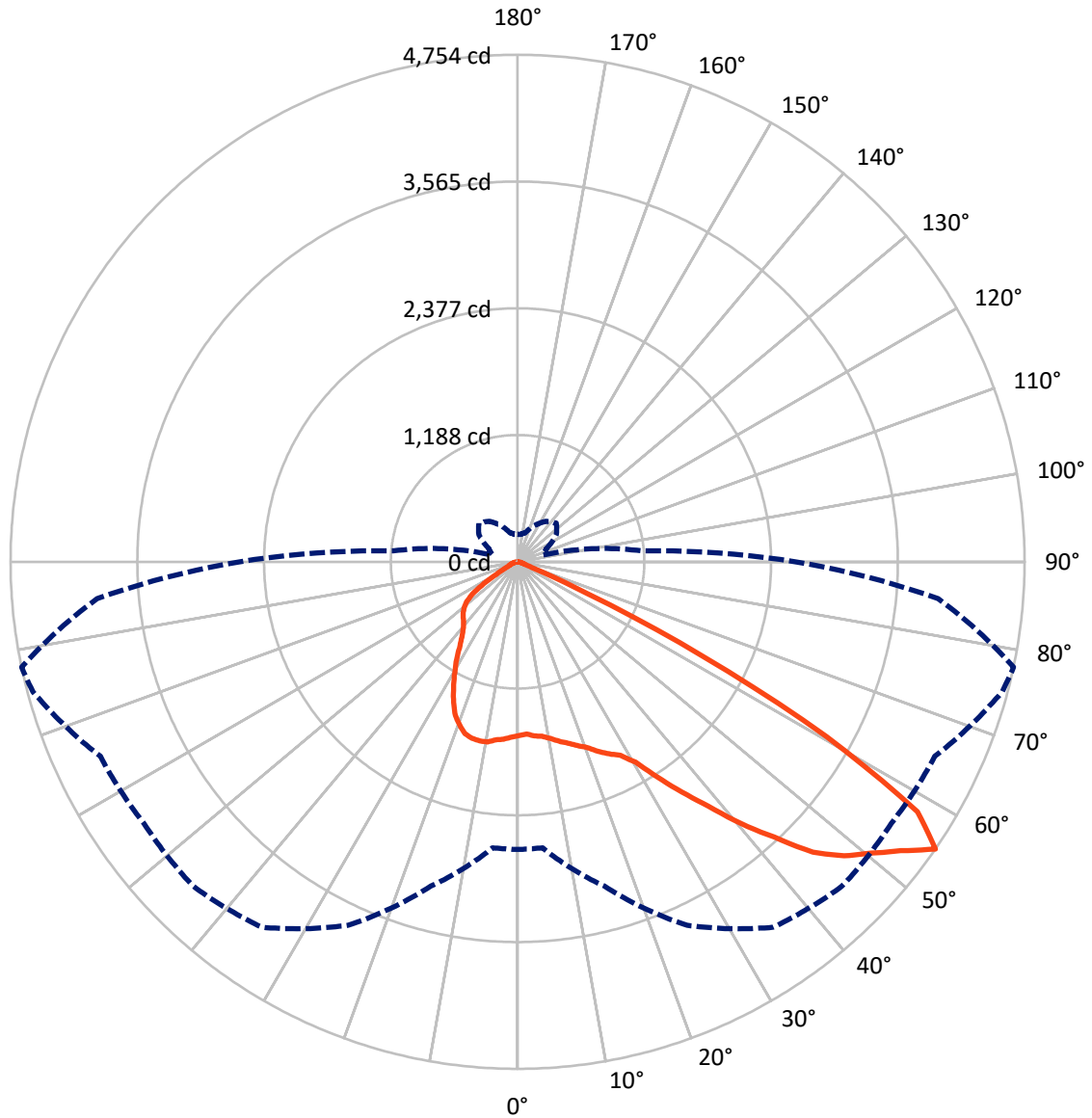
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1177.2	0.0	1177.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5160.8	0.0	5160.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	6338.0	0.0	6338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	2.3
10°-20°	384.5	6.1
20°-30°	674.0	10.6
30°-40°	1111.4	17.5
40°-50°	1617.2	25.5
50°-60°	1832.5	28.9
60°-70°	523.9	8.3
70°-80°	40.7	0.6
80°-90°	8.5	0.1
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°	6338.0	100.0
0°-180°	6338.0	100.0

Coefficient of Utilization

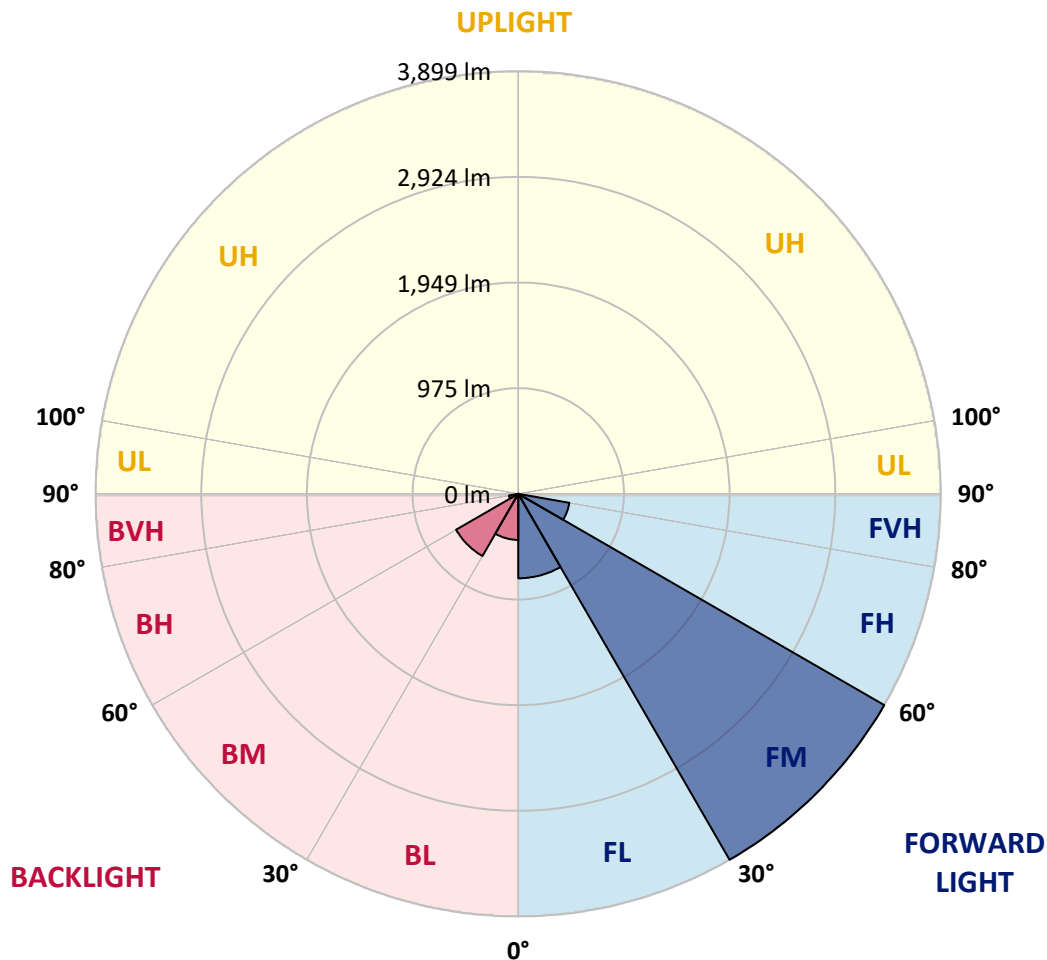


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.1	12.3			
FM (30°-60°)	3898.9	61.5			
FH (60°-80°)	478.7	7.6			G0/660
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	424.7	6.7	B1/500		
BM (30°-60°)	662.2	10.4	B1/1000		
BH (60°-80°)	85.9	1.4	B0/110		G0/110
BVH (80°-90°)	4.3	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5
2.5°	1532.1	1546.8	1549.0	1567.2	1566.0	1596.6	1605.7	1606.8	1627.2	1617.0	1643.1
5°	1489.0	1481.1	1477.7	1509.4	1518.5	1545.6	1568.3	1581.9	1623.8	1638.6	1665.8
7.5°	1450.5	1450.5	1452.7	1481.1	1477.7	1512.8	1536.6	1578.5	1639.7	1652.2	1685.0
10°	1413.1	1399.5	1416.5	1445.9	1470.9	1486.7	1536.6	1576.2	1647.6	1683.9	1729.2
12.5°	1393.8	1400.6	1402.9	1424.4	1451.6	1499.2	1526.4	1592.1	1704.3	1725.8	1774.5
15°	1515.1	1501.5	1468.6	1449.3	1472.0	1494.7	1562.6	1629.5	1733.8	1764.4	1818.7
17.5°	1655.6	1644.2	1617.0	1564.9	1513.9	1555.8	1609.1	1670.3	1765.5	1810.8	1891.3
20°	1839.1	1821.0	1793.8	1691.8	1647.6	1602.3	1659.0	1731.5	1817.6	1858.4	1941.1
22.5°	2057.8	2057.8	1996.7	1873.1	1781.3	1738.3	1762.1	1804.0	1875.4	1930.9	2012.5
25°	2285.6	2278.8	2223.3	2095.2	1940.0	1889.0	1916.2	1945.7	1964.9	1995.5	2049.9
27.5°	2546.2	2506.6	2436.3	2294.7	2157.6	2059.0	2088.4	2062.4	2038.6	2054.4	2132.6
30°	2723.0	2747.9	2658.4	2522.4	2393.3	2283.3	2289.0	2266.3	2157.6	2180.2	2226.7
32.5°	2906.6	2922.5	2872.6	2797.8	2668.6	2540.6	2494.1	2474.9	2393.3	2403.5	2358.1
35°	3059.6	3090.2	3046.0	3013.1	2975.7	2872.6	2744.5	2806.9	2675.4	2650.5	2532.6
37.5°	3200.1	3191.0	3243.1	3209.1	3201.2	3128.7	2988.2	3000.6	2912.3	2906.6	2770.6
40°	3325.9	3328.1	3399.5	3415.4	3383.7	3254.5	3050.5	3149.1	3220.5	3227.3	3052.8
42.5°	3430.1	3460.7	3521.9	3650.0	3602.4	3387.1	3115.1	3222.7	3487.9	3529.8	3320.2
45°	3520.8	3583.1	3659.0	3773.5	3746.3	3575.2	3276.0	3374.6	3773.5	3883.4	3571.8
47.5°	3526.4	3608.0	3690.7	3860.7	3894.7	3676.0	3442.6	3614.8	4000.1	4119.1	3755.3
50°	3503.8	3546.8	3712.3	3897.0	3974.0	3840.3	3676.0	3816.5	4219.9	4294.7	3848.3
52.5°	3235.2	3268.1	3600.1	3931.0	4116.8	4026.2	3985.4	4097.6	4444.3	4499.8	3935.5
55°	2697.0	2691.3	3148.0	3759.9	4182.5	4301.5	4276.6	4316.3	4703.8	4753.7	3957.0
57.5°	1844.8	1947.9	2342.3	3131.0	3780.3	4236.9	4263.0	4197.3	4401.2	4420.5	3449.4
60°	994.9	1038.0	1355.3	2089.6	2878.3	3452.8	3520.8	3401.8	3385.9	3331.5	2462.4
62.5°	395.5	417.0	597.2	1034.6	1568.3	2098.6	2244.8	2196.1	2091.8	1949.1	1274.8
65°	188.1	201.7	296.9	483.9	695.8	874.8	1021.0	1066.3	786.4	708.2	420.4
67.5°	128.0	138.2	216.4	276.5	248.2	259.5	337.7	313.9	184.7	157.5	116.7
70°	97.5	104.3	173.4	188.1	111.1	78.2	87.3	81.6	75.9	77.1	75.9
72.5°	69.1	74.8	126.9	111.1	48.7	36.3	46.5	55.5	55.5	55.5	54.4
75°	41.9	47.6	73.7	43.1	19.3	19.3	29.5	37.4	39.7	40.8	38.5
77.5°	21.5	27.2	24.9	12.5	12.5	14.7	21.5	26.1	28.3	28.3	27.2
80°	4.5	4.5	4.5	6.8	12.5	15.9	21.5	23.8	27.2	27.2	24.9
82.5°	0.0	1.1	3.4	6.8	11.3	14.7	20.4	23.8	27.2	28.3	26.1
85°	0.0	1.1	2.3	4.5	7.9	9.1	7.9	6.8	6.8	6.8	6.8
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°	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5	1629.5
2.5°	1645.4	1648.8	1643.1	1642.0	1637.4	1651.0	1618.2	1610.2	1630.6	1611.4	1615.9
5°	1666.9	1674.8	1664.6	1647.6	1622.7	1584.2	1551.3	1508.3	1487.9	1473.1	1470.9
7.5°	1682.8	1688.4	1678.2	1623.8	1549.0	1451.6	1379.1	1325.8	1283.9	1271.4	1251.0
10°	1747.4	1748.5	1697.5	1577.4	1431.2	1303.1	1192.1	1110.5	1068.6	1042.5	1031.2
12.5°	1790.4	1788.1	1685.0	1485.6	1290.7	1120.7	993.8	895.2	856.7	844.2	836.3
15°	1844.8	1832.3	1655.6	1391.5	1109.4	925.8	811.4	743.4	740.0	732.0	740.0
17.5°	1887.9	1852.7	1612.5	1220.4	936.0	762.6	687.8	692.4	701.4	709.4	710.5
20°	1958.1	1885.6	1513.9	1070.8	775.1	653.8	652.7	673.1	695.8	704.8	713.9
22.5°	2011.4	1899.2	1408.5	911.1	643.6	609.6	628.9	659.5	676.5	685.6	699.2
25°	2030.6	1861.8	1268.0	751.3	580.2	589.3	618.7	639.1	660.6	670.8	665.2
27.5°	2049.9	1842.5	1100.3	618.7	546.2	575.7	600.6	621.0	627.8	641.4	650.4
30°	2096.4	1775.7	949.6	534.9	529.2	566.6	584.7	591.5	609.6	617.6	617.6
32.5°	2133.8	1749.6	789.8	495.2	526.9	571.1	573.4	573.4	575.7	570.0	567.7
35°	2210.8	1660.1	647.0	471.4	525.8	572.3	577.9	558.7	506.5	486.1	480.5
37.5°	2306.0	1602.3	541.7	465.7	533.7	585.9	594.9	522.4	454.4	421.5	415.9
40°	2421.6	1561.5	472.5	463.5	551.9	617.6	590.4	494.1	405.7	358.1	355.8
42.5°	2556.4	1524.1	426.1	462.3	574.5	650.4	585.9	470.3	355.8	324.1	328.6
45°	2664.1	1503.7	394.3	454.4	582.5	669.7	589.3	428.3	335.4	315.0	317.3
47.5°	2747.9	1460.7	368.3	440.8	581.3	676.5	558.7	411.3	325.2	330.9	336.6
50°	2750.2	1402.9	335.4	411.3	564.3	664.0	523.5	395.5	323.0	346.8	358.1
52.5°	2719.6	1321.3	300.3	369.4	524.7	621.0	491.8	388.7	312.8	310.5	324.1
55°	2610.8	1168.3	241.4	299.2	443.1	512.2	463.5	376.2	282.2	256.1	258.4
57.5°	2110.0	837.4	177.9	214.2	313.9	375.1	418.1	370.5	253.8	217.6	218.7
60°	1306.5	474.8	130.3	146.2	193.8	227.8	338.8	344.5	226.6	183.6	181.3
62.5°	670.8	234.6	100.9	103.1	119.0	133.7	232.3	289.0	205.1	174.5	174.5
65°	224.4	115.6	88.4	79.3	79.3	82.7	140.5	200.6	173.4	146.2	146.2
67.5°	96.3	86.1	77.1	69.1	63.5	60.1	79.3	116.7	129.2	111.1	106.5
70°	74.8	72.5	66.9	57.8	49.9	45.3	46.5	60.1	73.7	71.4	69.1
72.5°	55.5	55.5	53.3	45.3	38.5	32.9	30.6	31.7	35.1	36.3	37.4
75°	38.5	39.7	39.7	35.1	28.3	23.8	20.4	17.0	13.6	11.3	10.2
77.5°	26.1	27.2	29.5	26.1	21.5	15.9	12.5	9.1	5.7	2.3	2.3
80°	22.7	26.1	28.3	26.1	22.7	17.0	12.5	6.8	3.4	0.0	0.0
82.5°	23.8	26.1	29.5	24.9	21.5	15.9	12.5	7.9	3.4	1.1	0.0
85°	5.7	5.7	6.8	7.9	10.2	11.3	9.1	5.7	3.4	1.1	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	0.0	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)