

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: STREETWORKS

Report Number: P321255

Luminaire Tested: **GAN-SA1D-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5970 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

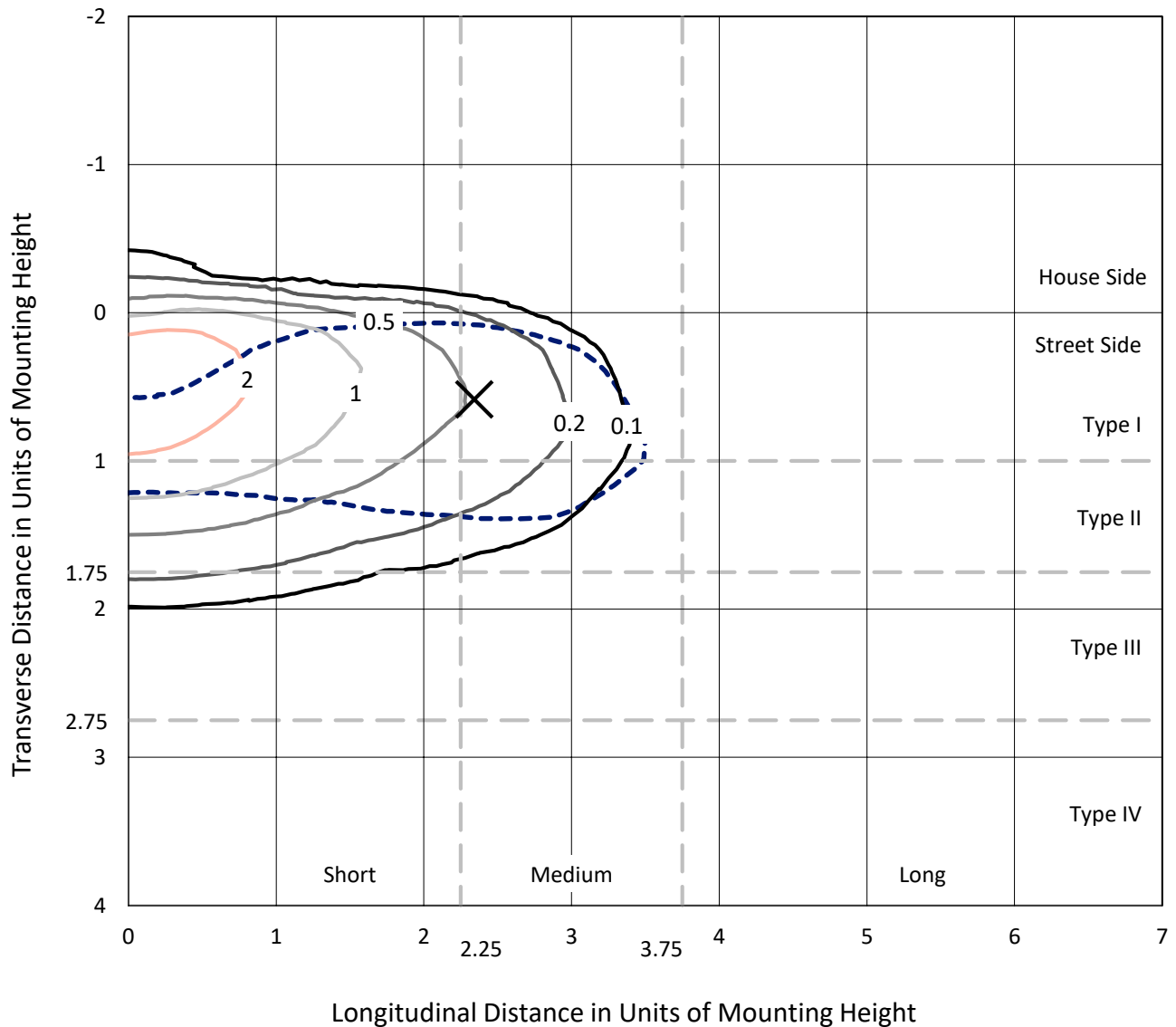
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P321255  
 CATALOG NUMBER: GAN-SA1D-730-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

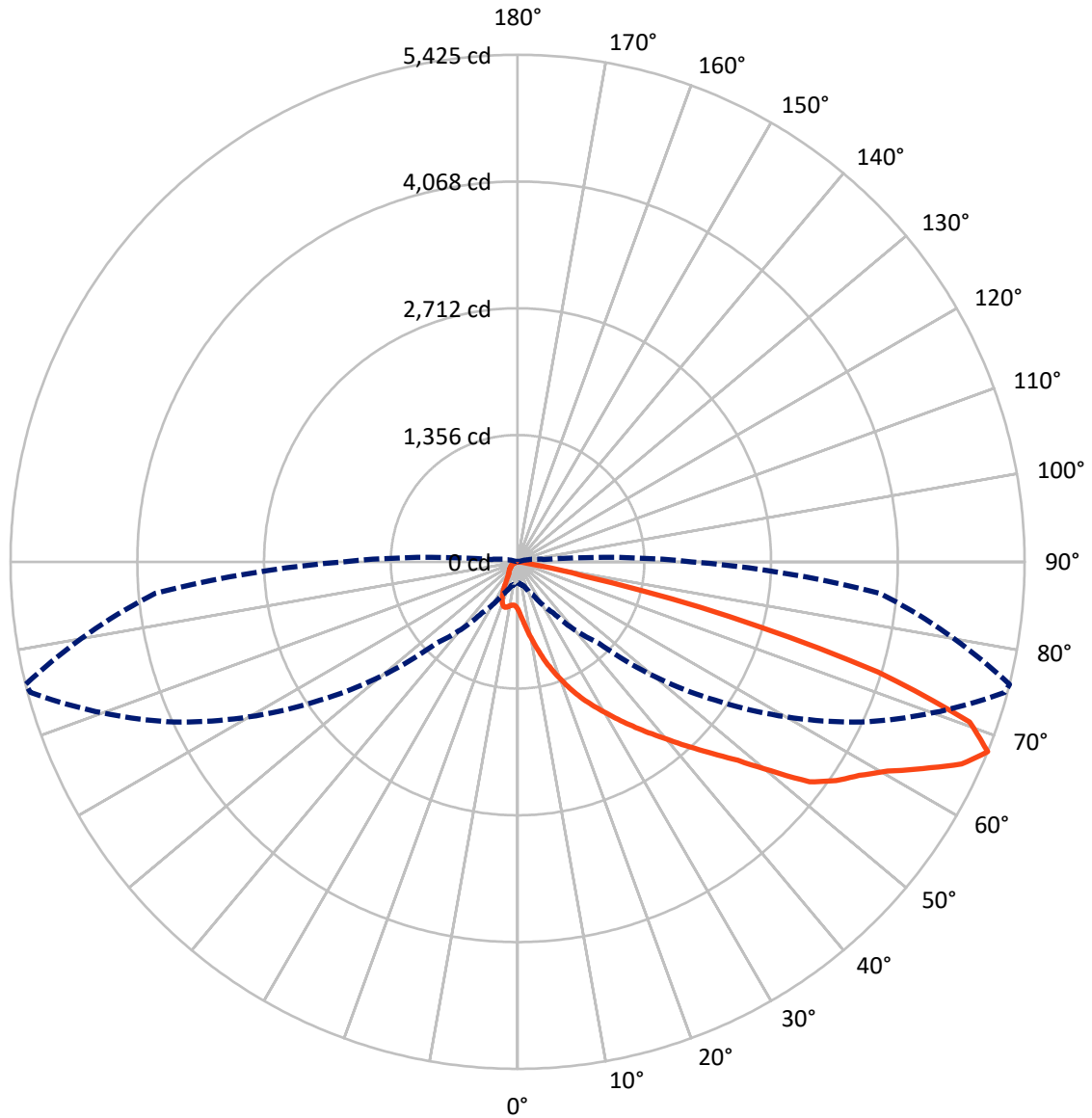
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P321255  
CATALOG NUMBER: GAN-SA1D-730-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P321255  
 CATALOG NUMBER: GAN-SA1D-730-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	296.5	0.0	296.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5673.5	0.0	5673.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5970.0	0.0	5970.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	1.1
10°-20°	249.6	4.2
20°-30°	507.9	8.5
30°-40°	881.6	14.8
40°-50°	1245.6	20.9
50°-60°	1412.6	23.7
60°-70°	1171.6	19.6
70°-80°	424.4	7.1
80°-90°	13.8	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°	5970.0	100.0
0°-180°	5970.0	100.0

**Coefficient of Utilization**

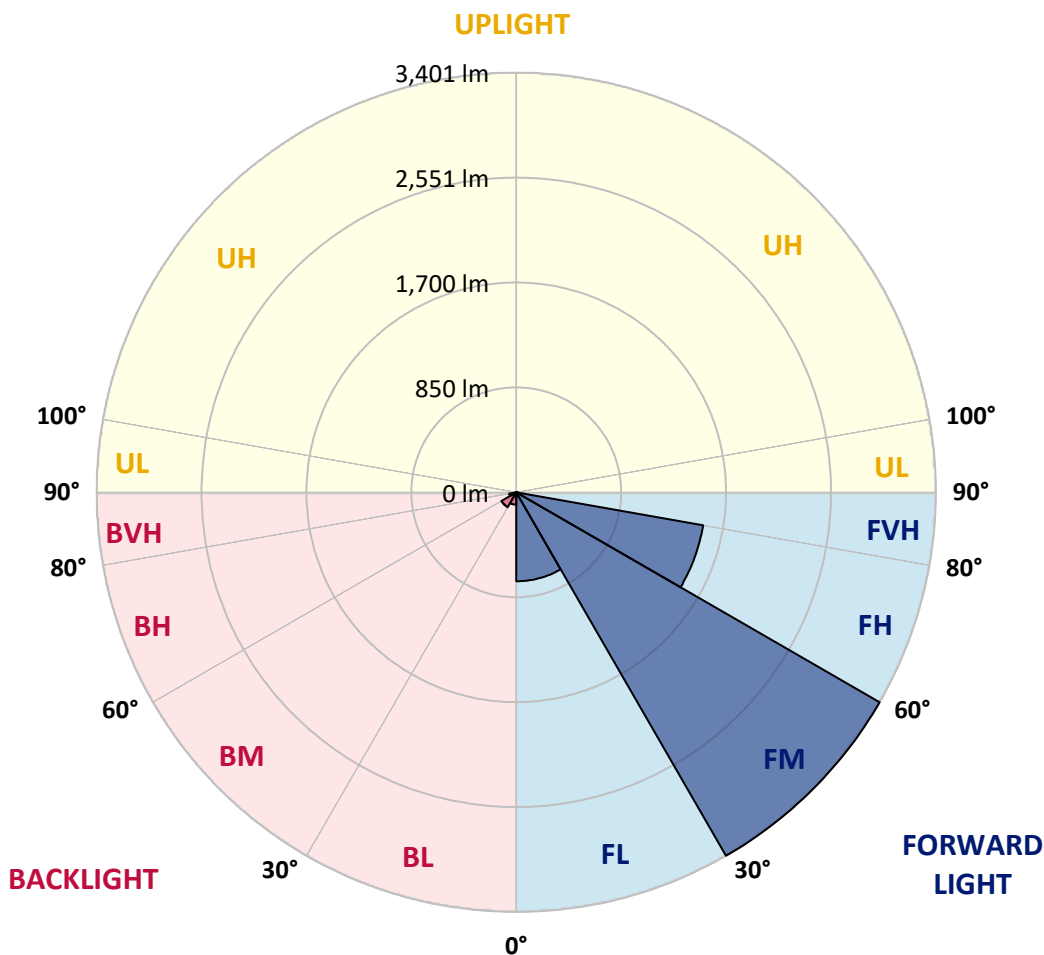


REPORT NUMBER: P321255  
 CATALOG NUMBER: GAN-SA1D-730-U-T2R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.6	12.1			
FM (30°-60°)	3401.0	57.0			
FH (60°-80°)	1538.7	25.8			G1/1800
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	100.0	1.7	B0/110		
BM (30°-60°)	138.7	2.3	B0/220		
BH (60°-80°)	57.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium





REPORT NUMBER: P321255

CATALOG NUMBER: GAN-SA1D-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	756.0	739.0	742.9	731.9	712.0	671.2	636.4	603.5	565.0	563.7	532.1
5°	1019.4	1005.0	1003.2	980.9	944.8	875.5	808.0	731.1	645.3	639.1	571.8
7.5°	1258.5	1247.0	1242.8	1216.4	1149.1	1081.7	993.8	880.8	746.6	735.1	625.5
10°	1442.1	1436.6	1437.7	1418.8	1361.3	1298.5	1183.1	1039.0	861.4	843.6	689.8
12.5°	1581.3	1582.6	1592.0	1580.5	1548.3	1501.8	1378.6	1207.7	988.5	964.2	763.3
15°	1683.6	1690.1	1707.4	1721.8	1719.4	1679.1	1566.1	1379.1	1123.5	1096.6	845.2
17.5°	1749.7	1757.1	1782.2	1814.1	1843.4	1834.0	1747.1	1544.4	1260.1	1228.9	932.8
20°	1807.8	1816.4	1843.4	1885.5	1940.2	1951.9	1894.9	1704.8	1396.3	1358.4	1023.3
22.5°	1933.6	1933.4	1949.9	1974.4	2026.5	2056.8	2020.7	1853.6	1531.1	1491.6	1115.7
25°	2161.2	2152.6	2146.8	2127.5	2139.0	2157.8	2137.7	1992.8	1666.6	1626.5	1209.3
27.5°	2431.7	2436.9	2390.4	2338.3	2298.0	2278.7	2245.7	2121.7	1796.8	1752.9	1300.9
30°	2717.1	2718.7	2663.7	2597.3	2508.6	2435.1	2378.1	2244.9	1930.8	1882.9	1389.8
32.5°	2974.5	2964.3	2909.9	2819.4	2707.4	2624.7	2506.2	2382.5	2072.5	2026.2	1488.7
35°	3178.5	3166.5	3100.3	3017.9	2901.8	2818.6	2676.0	2519.9	2221.6	2176.4	1587.8
37.5°	3327.6	3313.5	3245.5	3160.7	3060.5	3012.2	2873.0	2669.2	2384.3	2335.7	1692.2
40°	3379.4	3367.1	3324.5	3262.5	3181.9	3170.9	3082.0	2841.1	2561.4	2509.6	1810.4
42.5°	3348.6	3336.5	3321.3	3300.4	3266.9	3277.4	3279.2	3037.0	2758.2	2707.1	1941.0
45°	3226.1	3215.4	3231.1	3261.7	3303.3	3355.1	3459.2	3247.6	2977.9	2923.5	2091.9
47.5°	3045.9	3038.1	3081.5	3157.9	3279.5	3422.3	3623.7	3468.9	3224.6	3174.1	2280.2
50°	2789.5	2788.2	2875.1	3014.5	3201.5	3454.8	3793.8	3720.5	3567.2	3514.1	2542.1
52.5°	2390.4	2393.0	2563.8	2786.9	3064.7	3432.8	3903.1	4043.8	3965.9	3910.7	2768.9
55°	2010.3	2026.0	2147.1	2468.8	2854.9	3351.2	3940.8	4194.8	4185.9	4133.6	2895.0
57.5°	1638.0	1666.6	1783.2	2083.8	2548.6	3163.1	3920.1	4260.2	4349.6	4309.6	3061.3
60°	1234.7	1247.8	1382.2	1663.2	2155.5	2819.9	3770.2	4295.8	4573.6	4545.8	3302.8
62.5°	785.5	818.2	937.5	1208.5	1678.3	2343.3	3517.5	4295.2	4853.7	4868.9	3614.3
65°	413.8	452.0	515.3	748.9	1153.3	1811.0	3137.5	4254.9	5197.4	5218.6	3857.9
67.5°	223.1	234.1	267.6	388.7	668.9	1226.8	2579.0	4056.1	5396.5	5424.5	3891.9
70°	163.2	169.2	181.8	215.0	336.7	712.6	1881.8	3605.4	5139.9	5129.4	3457.9
72.5°	125.3	134.7	144.1	157.5	193.6	380.3	1171.6	2823.3	4101.1	4032.1	2584.7
75°	98.9	100.4	113.8	125.8	145.2	216.6	520.3	1644.3	2503.1	2339.6	1340.4
77.5°	79.0	80.0	87.9	98.4	116.7	142.3	161.1	646.9	799.1	713.1	290.9
80°	46.8	49.4	65.4	75.9	96.8	89.7	58.9	140.5	124.8	113.0	48.9
82.5°	26.2	28.3	36.9	59.9	67.5	42.9	29.3	37.9	29.3	28.5	13.9
85°	0.0	1.3	23.8	37.1	27.5	9.4	12.3	12.6	8.6	8.1	5.5
87.5°	0.0	0.0	7.3	7.1	1.0	1.6	2.9	4.2	3.4	3.4	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



REPORT NUMBER: P321255  
 CATALOG NUMBER: GAN-SA1D-730-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	516.4	502.2	475.6	449.4	427.4	409.4	393.2	386.6	381.4	380.6	376.4
5°	539.4	510.9	459.9	418.0	390.0	370.1	353.1	342.7	334.6	331.4	328.6
7.5°	574.2	531.0	457.8	409.6	376.2	342.7	311.3	277.3	256.1	248.0	243.3
10°	616.6	557.7	465.6	407.3	348.7	278.1	226.0	182.8	165.3	159.6	158.0
12.5°	666.0	590.9	479.2	392.6	290.1	197.5	155.9	141.3	137.3	135.5	135.5
15°	722.8	627.3	488.9	350.3	214.5	149.4	135.0	128.2	124.0	121.6	121.9
17.5°	780.8	662.9	484.2	288.8	158.3	132.9	122.2	114.8	109.1	106.7	106.2
20°	839.4	695.8	458.0	215.0	133.9	120.6	108.6	100.4	94.7	92.3	91.8
22.5°	900.1	723.8	412.0	157.7	120.3	107.0	95.2	87.1	81.6	79.5	78.5
25°	959.2	746.6	347.6	127.7	107.5	94.2	82.9	75.3	70.4	68.3	68.0
27.5°	1014.4	761.0	273.1	112.7	96.3	82.7	72.5	65.7	61.5	59.9	59.6
30°	1064.1	762.3	201.9	101.8	86.3	72.7	63.3	57.3	53.6	52.1	51.5
32.5°	1114.4	751.3	147.0	91.8	77.2	64.1	54.9	50.2	47.6	46.3	46.3
35°	1161.7	725.9	114.6	83.2	68.3	55.7	48.4	45.0	43.4	42.1	42.1
37.5°	1208.0	689.5	97.3	75.6	59.9	48.7	42.6	40.5	39.2	37.9	37.9
40°	1255.1	643.8	88.4	68.5	53.1	43.2	37.9	36.1	34.8	33.7	33.5
42.5°	1312.9	590.9	82.7	62.0	47.1	38.2	33.5	31.4	30.3	29.3	28.8
45°	1379.9	545.4	78.0	55.5	42.1	34.0	29.0	26.9	25.4	24.1	23.8
47.5°	1476.4	512.4	71.7	48.4	37.4	29.6	25.1	22.8	20.4	19.1	18.8
50°	1599.6	485.2	63.6	42.1	32.7	25.1	20.9	18.0	16.0	14.6	14.6
52.5°	1660.8	449.7	56.2	36.6	27.5	21.2	17.0	13.6	12.6	11.2	11.2
55°	1685.4	422.5	48.9	31.1	22.8	17.5	13.3	10.5	9.7	8.9	8.6
57.5°	1754.5	414.6	42.6	26.4	18.8	13.9	10.2	7.8	7.3	6.3	6.3
60°	1865.6	418.5	36.9	22.5	15.2	10.7	7.6	6.0	5.5	4.4	4.4
62.5°	1985.7	413.6	31.1	19.4	11.8	7.8	5.2	4.4	4.4	2.6	2.4
65°	2008.7	368.3	26.7	16.0	9.2	5.8	3.4	2.9	3.9	0.5	0.0
67.5°	1864.3	285.7	23.0	12.3	6.8	4.4	2.6	1.3	3.4	0.0	0.0
70°	1490.8	181.5	18.6	8.9	5.2	3.7	2.1	0.5	2.6	0.0	0.0
72.5°	1054.2	105.4	14.6	6.3	4.4	2.9	1.6	0.0	1.6	0.0	0.0
75°	533.1	56.2	9.2	4.7	3.4	2.1	1.0	0.0	0.3	0.0	0.0
77.5°	115.4	26.2	5.8	3.4	2.4	1.3	0.5	0.0	0.0	0.0	0.0
80°	25.1	11.5	3.7	2.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	6.0	1.8	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	3.1	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	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)