

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: P322085

Luminaire Tested: **GAN-SA1C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187 lumens
Efficiency: N/A
Efficacy: 71.0 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): 59
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

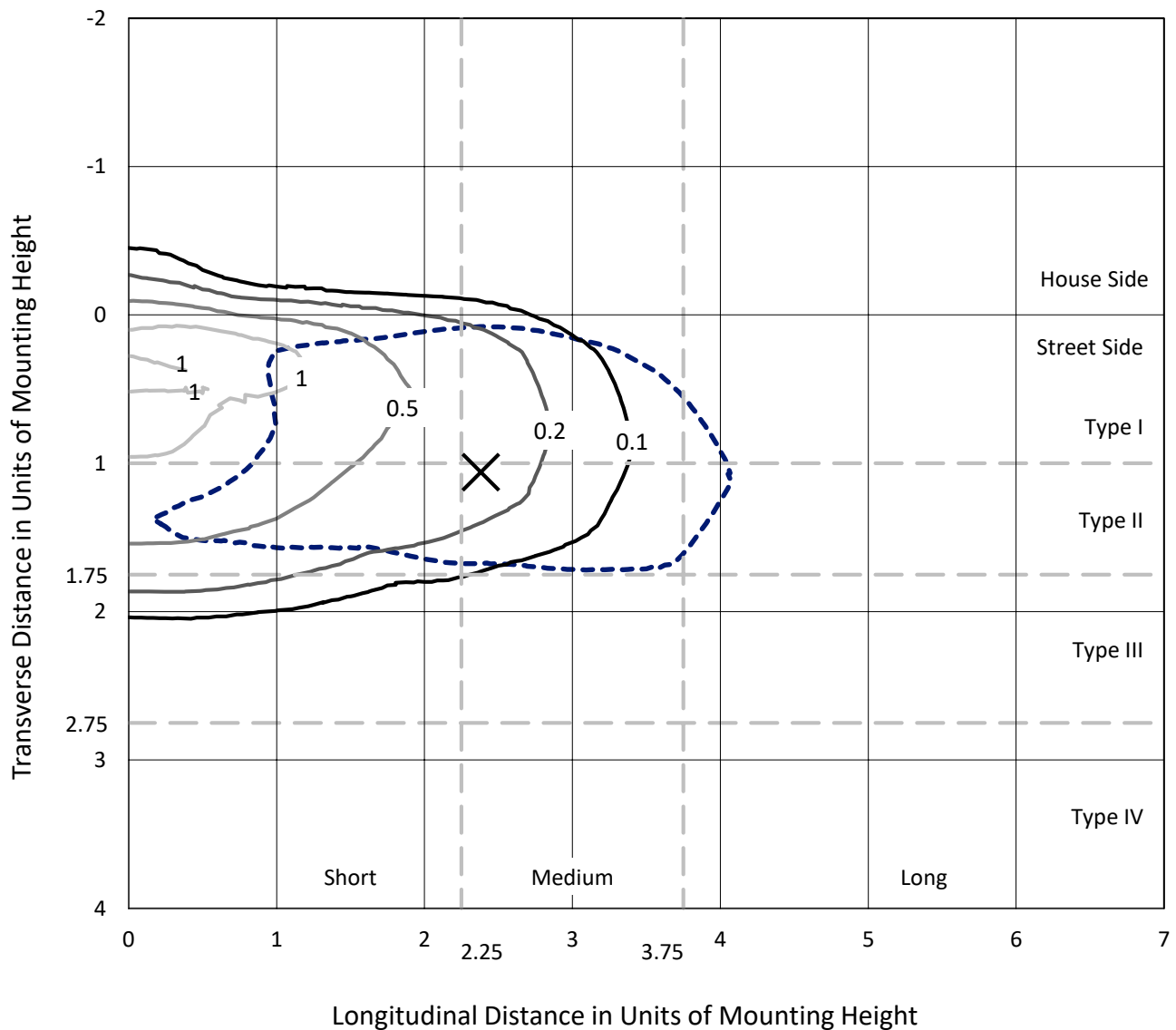


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Iso-Footcandle Lines of Horizontal Illumination

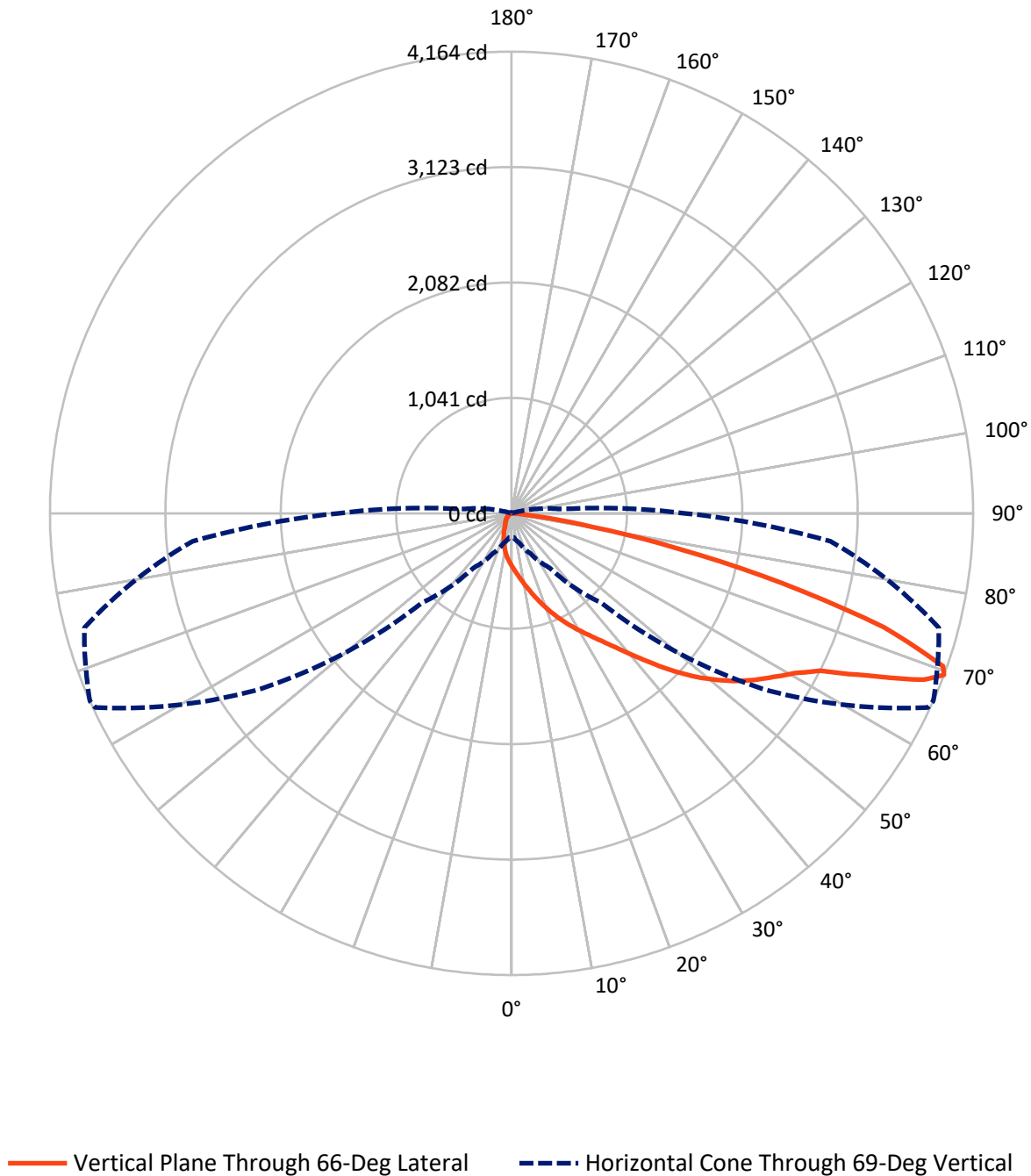
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.2	0.0	251.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	3935.8	0.0	3935.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	4187.0	0.0	4187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.1
10°-20°	137.1	3.3
20°-30°	238.7	5.7
30°-40°	418.8	10.0
40°-50°	701.0	16.7
50°-60°	1030.4	24.6
60°-70°	1058.0	25.3
70°-80°	522.3	12.5
80°-90°	34.5	0.8
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°	4187.0	100.0
0°-180°	4187.0	100.0

Coefficient of Utilization



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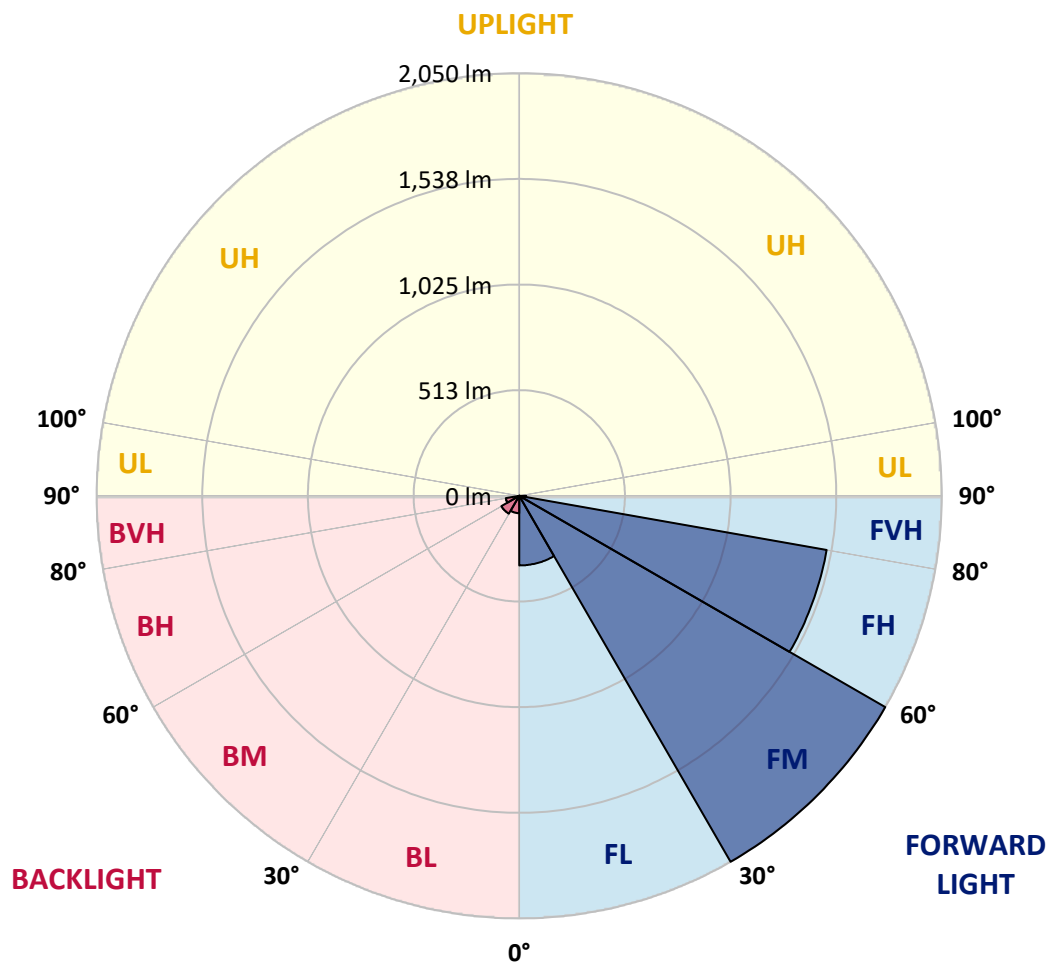
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.9	8.1			
FM	(30°-60°)	2050.2	49.0			
FH	(60°-80°)	1514.1	36.2			G1/1800
FVH	(80°-90°)	33.7	0.8			G1/100
BL	(0°-30°)	84.0	2.0	B0/110		
BM	(30°-60°)	100.1	2.4	B0/220		
BH	(60°-80°)	66.2	1.6	B0/110		G0/110
BVH	(80°-90°)	0.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5
2.5°	560.8	558.4	557.4	553.1	545.5	539.7	528.6	515.7	513.3	500.8	485.4
5°	633.6	631.6	630.2	624.1	616.3	601.8	581.5	557.4	552.9	529.0	498.4
7.5°	684.3	687.9	687.9	683.9	674.2	663.2	638.4	605.6	599.8	563.2	515.7
10°	713.9	718.3	721.7	725.1	723.7	719.3	695.8	658.9	651.9	603.4	535.8
12.5°	716.7	721.1	730.7	744.8	758.5	768.4	753.7	717.9	710.0	649.9	559.6
15°	701.2	705.8	720.5	748.0	781.2	810.2	815.0	783.4	775.2	705.4	589.5
17.5°	674.2	677.2	698.2	736.2	788.3	841.6	870.5	853.6	846.0	768.8	622.7
20°	654.1	656.3	674.8	715.5	783.9	861.3	923.0	928.1	920.2	836.8	658.7
22.5°	688.5	692.5	693.1	712.4	772.0	871.1	969.1	1001.5	995.5	909.0	694.1
25°	782.6	787.1	772.0	760.1	782.2	875.4	1008.7	1076.7	1071.9	986.8	729.7
27.5°	906.9	911.6	892.1	856.5	835.3	891.9	1043.9	1153.1	1152.9	1069.1	768.0
30°	1029.0	1033.7	1013.8	978.2	929.3	938.7	1074.3	1233.0	1234.2	1154.0	808.8
32.5°	1157.0	1163.0	1142.5	1096.8	1045.7	1019.4	1117.1	1313.3	1320.1	1252.5	854.7
35°	1302.6	1303.4	1274.6	1226.6	1167.8	1127.4	1185.7	1403.4	1419.5	1374.4	913.0
37.5°	1445.4	1451.2	1427.5	1351.9	1297.8	1252.1	1287.7	1516.0	1538.9	1523.3	989.2
40°	1551.2	1563.3	1559.9	1478.4	1427.1	1394.5	1414.4	1649.8	1678.9	1696.8	1085.2
42.5°	1617.6	1626.8	1642.3	1593.2	1546.6	1552.0	1563.9	1805.7	1841.5	1894.4	1195.6
45°	1693.8	1698.2	1711.1	1689.4	1658.0	1712.1	1722.6	1981.3	2018.9	2107.0	1318.1
47.5°	1786.9	1797.2	1800.8	1780.9	1766.6	1853.7	1875.5	2141.0	2193.7	2334.7	1447.8
50°	1905.4	1908.2	1914.3	1901.4	1887.1	1975.4	2012.8	2308.7	2356.6	2563.2	1575.7
52.5°	2021.3	2031.3	2052.7	2044.6	2038.8	2079.0	2135.1	2459.8	2513.3	2753.8	1703.3
55°	2054.7	2063.3	2137.5	2188.2	2235.1	2206.7	2252.0	2595.3	2653.1	2924.0	1826.2
57.5°	1921.3	1938.6	2067.1	2199.1	2393.8	2405.1	2412.7	2734.3	2786.2	3054.5	1954.1
60°	1584.0	1587.4	1798.2	2024.7	2367.6	2578.4	2647.4	2883.6	2927.2	3176.0	2107.2
62.5°	1007.5	1041.9	1273.2	1593.0	2089.9	2553.3	2931.2	3109.5	3125.5	3321.7	2326.8
65°	479.9	502.1	668.8	984.2	1513.8	2232.5	3127.0	3518.2	3525.4	3610.7	2620.1
67.5°	265.7	276.4	355.8	529.8	885.0	1578.8	3047.9	4002.3	4009.0	3905.8	2877.5
69°	207.8	217.0	279.4	399.3	600.0	1134.8	2758.1	4144.1	4164.2	3990.3	2886.6
70°	176.4	185.3	240.6	337.3	482.5	876.8	2455.1	4108.9	4130.1	3982.4	2818.4
72.5°	108.0	113.2	160.3	237.5	323.4	441.1	1514.0	3474.9	3510.9	3653.1	2422.2
75°	72.8	75.6	100.2	163.9	231.3	227.1	786.5	2449.3	2527.2	2841.7	1789.0
77.5°	52.1	54.7	67.2	106.0	162.1	149.9	356.2	1522.2	1538.9	1704.3	975.7
80°	29.6	32.0	47.5	63.0	110.0	100.0	141.6	727.1	735.4	730.8	325.8
82.5°	15.5	17.5	26.1	41.6	70.6	65.4	58.9	243.4	244.6	203.4	71.4
85°	3.0	3.6	12.9	28.4	36.4	28.4	24.1	57.1	58.3	51.5	17.7
87.5°	0.0	0.2	5.2	6.4	7.2	7.4	7.8	11.1	11.9	16.1	4.8
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°	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5	476.5
2.5°	478.7	471.5	457.8	441.9	429.6	417.4	407.9	397.9	394.4	392.6	392.4
5°	483.5	468.3	439.3	409.5	385.0	361.9	345.4	329.7	322.4	319.0	317.6
7.5°	491.4	467.1	420.4	374.9	339.7	310.8	288.0	270.9	262.3	258.7	257.3
10°	500.8	465.6	398.3	338.3	293.3	263.5	240.8	223.9	214.6	210.6	208.6
12.5°	511.7	462.8	372.9	301.3	253.8	223.9	196.5	175.6	164.9	160.3	158.1
15°	525.2	460.0	346.2	266.5	219.0	182.6	152.5	138.4	136.2	135.4	135.6
17.5°	538.5	455.6	317.2	232.1	182.4	142.6	127.3	126.5	126.9	126.9	126.9
20°	550.5	445.7	285.6	202.6	147.6	120.3	117.1	115.7	114.7	114.0	113.0
22.5°	559.8	432.3	255.2	173.4	120.5	110.2	105.2	100.8	97.2	94.9	93.7
25°	566.2	414.6	227.3	145.4	108.4	100.2	91.3	83.9	78.4	75.0	73.6
27.5°	571.0	395.6	202.5	121.7	100.0	88.7	77.0	68.2	62.4	59.5	58.3
30°	574.3	373.9	180.6	107.0	90.7	76.6	64.0	55.5	51.3	49.7	48.9
32.5°	577.5	349.8	159.9	100.0	81.9	65.4	53.7	47.1	44.5	42.6	42.0
35°	585.5	327.5	140.2	92.7	73.0	55.9	46.1	41.4	38.8	37.6	37.2
37.5°	604.4	311.0	121.3	85.1	64.0	48.3	40.4	37.0	34.6	33.4	33.0
40°	634.8	302.7	105.4	77.0	55.3	42.6	36.6	33.4	30.8	29.0	28.6
42.5°	679.5	303.9	94.3	68.8	48.3	38.0	33.0	29.2	26.4	24.9	24.5
45°	733.8	312.6	86.5	60.9	42.6	34.4	29.0	25.1	22.5	21.1	20.7
47.5°	792.7	326.7	80.1	53.7	38.0	31.0	25.1	20.9	18.7	17.5	17.3
50°	854.7	340.5	73.6	46.7	34.0	27.6	21.1	17.3	15.5	14.5	14.1
52.5°	917.6	356.4	67.6	40.4	30.6	23.7	17.5	14.1	12.7	11.9	11.5
55°	985.2	368.3	61.8	35.4	27.2	20.1	14.5	11.7	10.5	9.5	9.3
57.5°	1064.8	386.8	55.9	30.6	23.3	16.7	11.9	9.3	8.4	7.4	7.2
60°	1172.1	408.5	49.5	27.0	19.1	13.7	9.7	7.6	6.4	5.6	5.4
62.5°	1313.7	432.5	41.6	23.7	15.5	11.1	7.8	6.0	4.6	3.6	3.6
65°	1493.3	471.7	34.0	19.9	12.7	9.1	6.0	4.4	2.6	1.6	1.6
67.5°	1598.1	478.5	27.4	16.3	10.3	7.8	5.0	3.0	0.8	0.2	0.0
69°	1564.5	439.3	23.3	13.9	8.9	7.4	4.6	2.2	0.4	0.0	0.0
70°	1501.3	401.7	20.5	12.3	8.2	7.0	4.4	1.6	0.4	0.0	0.0
72.5°	1240.6	286.0	15.5	9.1	6.0	6.2	4.0	1.0	0.4	0.0	0.0
75°	903.7	173.8	11.1	6.4	3.8	4.6	2.8	0.4	0.2	0.0	0.0
77.5°	502.7	81.9	7.0	3.6	2.4	2.8	1.4	0.0	0.0	0.0	0.0
80°	163.3	22.3	3.2	2.0	1.4	1.6	0.6	0.0	0.0	0.0	0.0
82.5°	30.2	6.4	1.8	1.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.6	2.6	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.8	0.2	0.0	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)