

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: P321755

Luminaire Tested: **GAN-SA1B-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3656 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

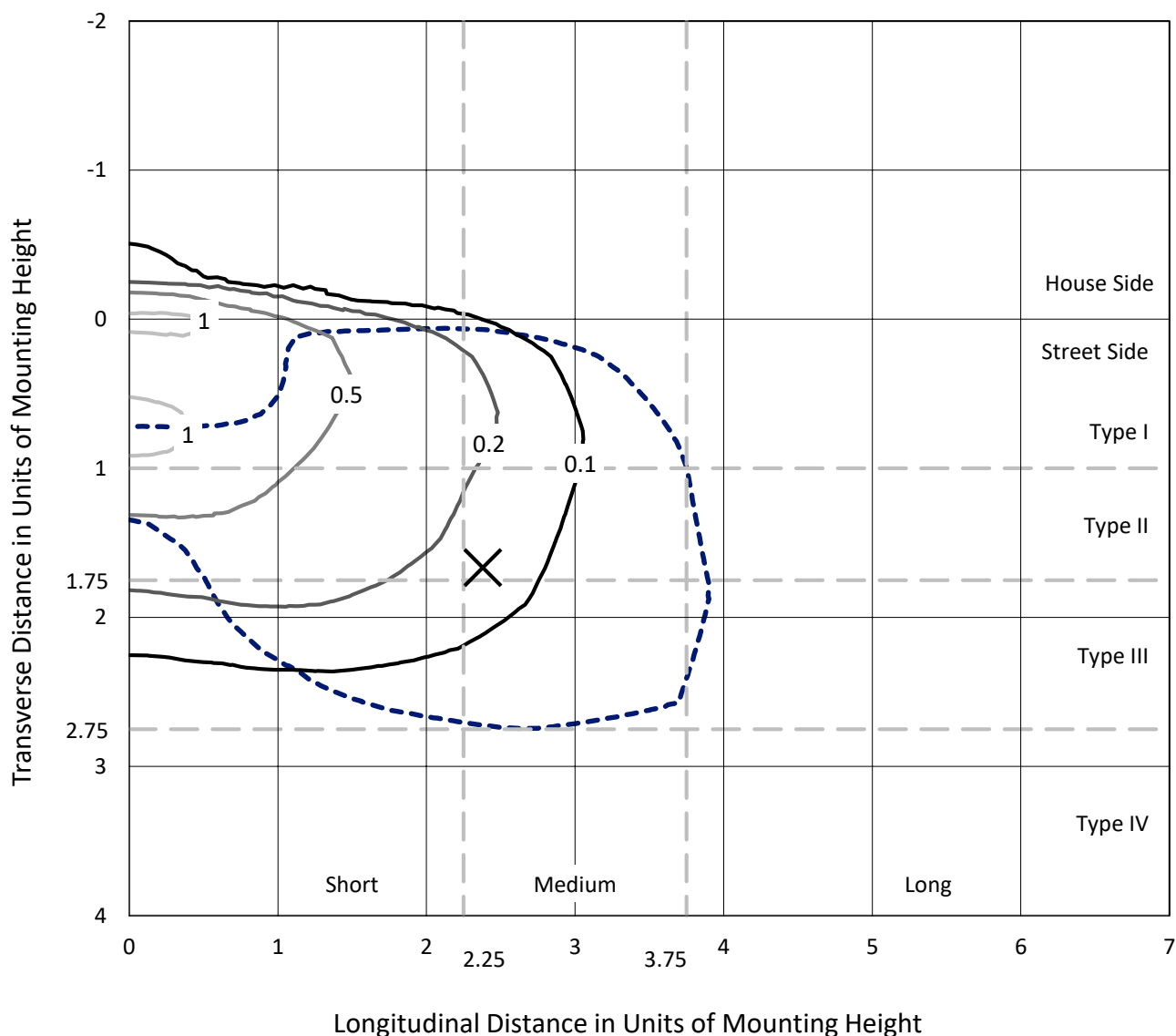
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

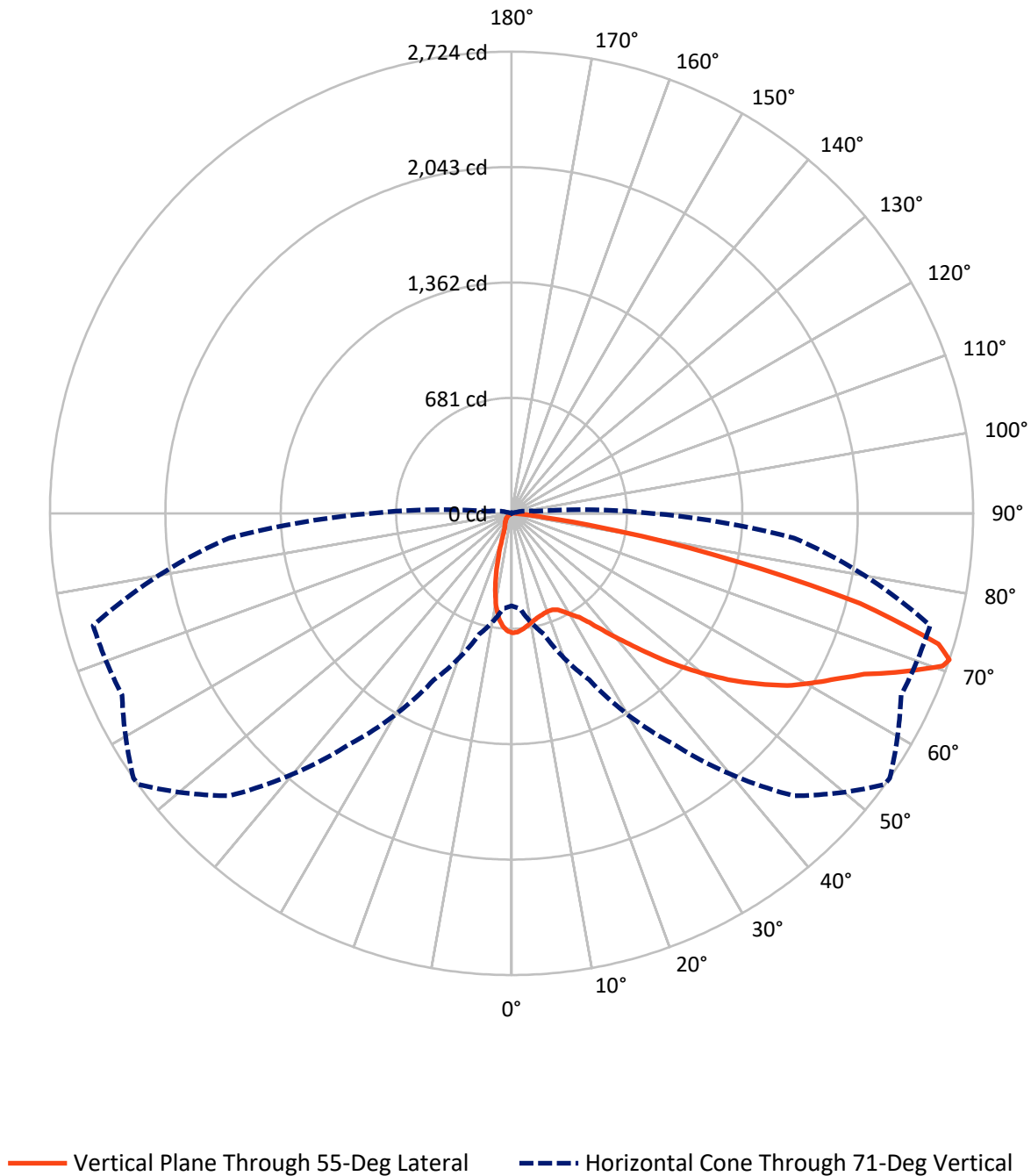
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	289.5	0.0	289.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3366.5	0.0	3366.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	3656.0	0.0	3656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.6
10°-20°	135.7	3.7
20°-30°	218.1	6.0
30°-40°	370.6	10.1
40°-50°	575.2	15.7
50°-60°	773.3	21.2
60°-70°	946.0	25.9
70°-80°	553.1	15.1
80°-90°	23.9	0.7
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°	3656.0	100.0
0°-180°	3656.0	100.0

Coefficient of Utilization



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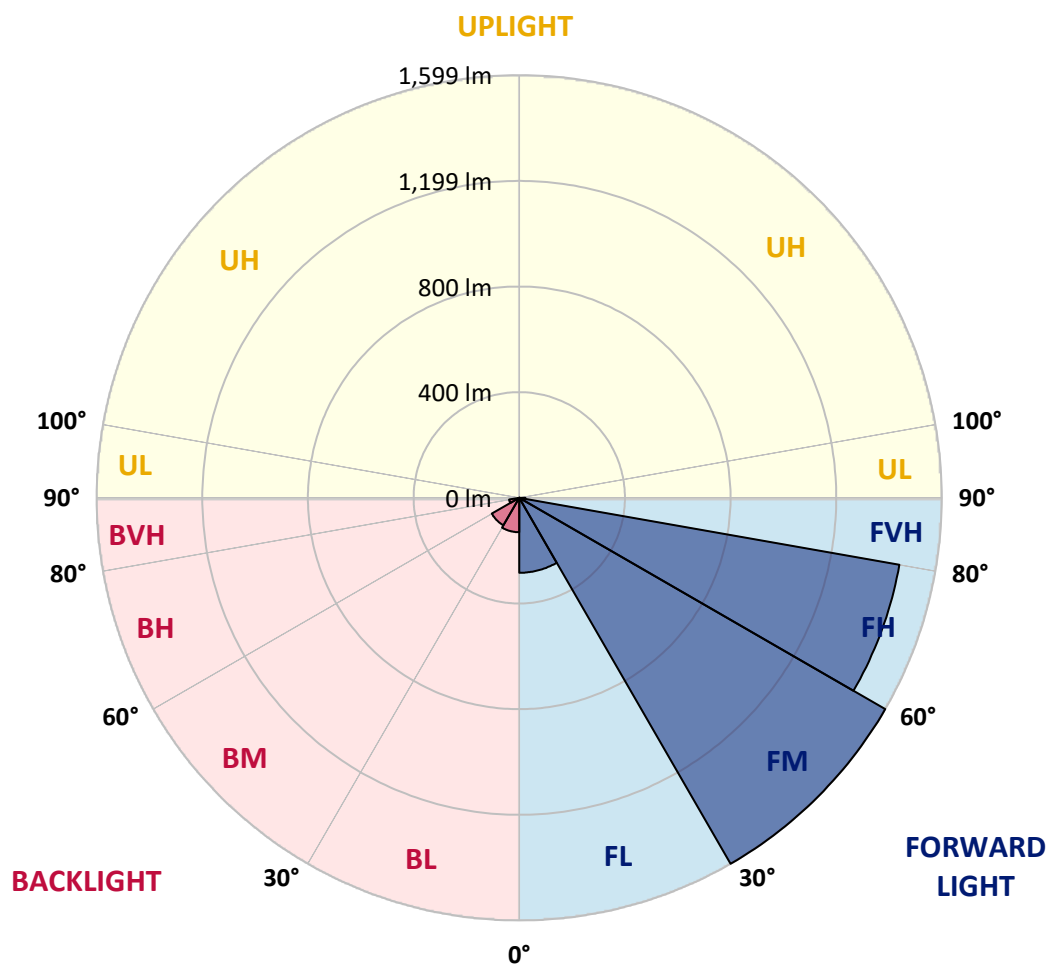
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.7	7.8			
FM	(30°-60°)	1599.0	43.7			
FH	(60°-80°)	1460.3	39.9			G1/1800
FVH	(80°-90°)	23.5	0.6			G1/100
BL	(0°-30°)	130.3	3.6	B1/500		
BM	(30°-60°)	120.0	3.3	B0/220		
BH	(60°-80°)	38.8	1.1	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: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1
2.5°	684.4	685.2	688.2	689.5	692.6	697.8	700.5	700.6	704.9	706.6	707.9
5°	636.0	640.9	645.8	651.1	660.6	673.2	685.7	686.9	700.6	710.8	716.2
7.5°	594.3	598.7	604.6	613.0	626.4	646.3	667.2	669.6	695.7	718.9	731.0
10°	551.4	555.0	563.6	575.9	594.4	621.0	649.1	653.2	691.3	729.7	751.0
12.5°	505.6	507.8	518.1	535.8	563.1	596.9	633.8	639.2	688.5	742.2	774.7
15°	470.8	471.8	481.6	500.0	531.2	575.2	622.0	628.6	689.1	757.1	800.5
17.5°	461.9	462.4	467.7	480.3	507.9	555.9	612.6	620.7	691.1	771.7	826.4
20°	497.9	494.5	489.0	487.1	498.9	544.2	607.1	616.1	693.7	784.7	849.7
22.5°	596.6	586.4	563.9	533.9	515.6	545.0	608.5	617.6	702.1	800.6	876.6
25°	743.0	728.9	690.6	631.5	574.7	568.7	620.9	630.1	718.4	819.7	902.4
27.5°	909.6	895.7	848.9	764.5	667.6	615.4	649.1	657.6	742.5	836.6	922.1
30°	1069.2	1065.2	1010.1	914.2	784.5	691.3	685.5	692.8	760.4	846.7	937.7
32.5°	1204.5	1198.2	1153.9	1060.6	918.3	782.4	728.4	730.5	773.9	859.9	958.0
35°	1329.9	1322.2	1283.2	1195.1	1055.6	893.7	794.4	791.3	803.2	886.3	987.6
37.5°	1439.4	1446.4	1403.3	1319.4	1178.7	1009.4	883.4	874.0	849.2	929.3	1030.4
40°	1531.0	1531.0	1508.5	1438.5	1311.6	1129.1	984.0	971.7	918.3	995.6	1084.8
42.5°	1564.0	1571.0	1579.4	1539.8	1430.7	1253.5	1096.1	1083.3	1015.7	1089.7	1153.4
45°	1565.9	1577.1	1619.9	1619.8	1538.2	1377.1	1222.5	1216.4	1140.4	1210.5	1238.4
47.5°	1538.2	1552.1	1622.7	1662.8	1623.4	1492.2	1360.7	1353.2	1287.0	1358.6	1327.4
50°	1495.3	1510.8	1592.9	1679.7	1681.3	1592.4	1506.3	1495.0	1448.4	1527.8	1419.3
52.5°	1418.7	1448.6	1566.1	1683.6	1719.4	1678.9	1644.9	1640.0	1629.0	1690.9	1492.6
55°	1254.7	1287.8	1499.0	1685.0	1754.7	1755.5	1774.7	1776.1	1798.2	1843.2	1547.1
57.5°	1177.2	1195.9	1381.7	1691.2	1807.1	1842.5	1907.1	1917.2	1951.5	1987.8	1609.3
60°	1128.4	1150.6	1324.0	1682.7	1889.3	1956.6	2029.7	2033.1	2069.9	2137.1	1693.5
62.5°	1089.5	1111.4	1287.5	1649.8	1981.8	2093.9	2149.5	2149.9	2177.4	2314.8	1789.2
65°	993.5	1011.9	1213.8	1612.9	2042.8	2229.6	2288.7	2286.6	2309.1	2502.3	1900.3
67.5°	854.6	868.7	1063.3	1472.9	2019.8	2353.1	2498.9	2491.8	2464.6	2664.3	1944.0
70°	660.7	665.8	838.0	1227.4	1804.5	2400.5	2701.9	2698.3	2559.9	2635.3	1783.9
71°	546.2	562.9	738.6	1083.3	1660.2	2356.7	2721.6	2723.8	2536.0	2556.2	1673.8
72.5°	317.2	331.4	535.3	832.0	1409.5	2173.8	2619.5	2635.0	2424.0	2325.0	1429.7
75°	68.0	72.7	198.5	402.7	775.3	1523.6	2067.6	2122.6	1975.7	1581.7	861.7
77.5°	47.3	51.1	85.0	182.7	256.3	752.8	1284.4	1346.5	1180.3	594.4	275.8
80°	37.4	41.7	66.3	90.3	69.3	242.8	601.7	639.6	393.7	132.6	46.5
82.5°	20.8	24.8	51.7	48.8	26.6	46.1	168.4	190.4	78.8	26.8	11.0
85°	6.1	7.4	33.3	35.5	11.3	8.9	28.7	35.6	14.9	7.1	4.9
87.5°	0.0	0.0	16.1	13.6	3.3	1.3	2.6	3.0	3.0	3.0	3.3
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°	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1	705.1
2.5°	707.9	709.0	704.9	699.5	693.7	686.7	679.3	673.6	673.4	670.6	667.8
5°	716.6	715.9	704.6	687.3	667.0	645.8	625.6	602.8	595.2	585.9	582.8
7.5°	732.7	728.1	704.1	666.3	621.7	577.4	531.6	485.4	465.7	448.0	444.9
10°	752.8	744.1	701.0	634.8	552.9	471.1	402.0	339.3	311.7	290.6	289.6
12.5°	773.9	760.6	692.3	587.2	462.8	347.9	268.2	206.5	183.5	168.8	170.1
15°	795.9	776.0	673.6	523.0	360.2	236.1	164.8	128.5	119.3	115.6	116.6
17.5°	818.3	786.7	647.5	445.7	258.9	152.3	114.1	103.9	103.9	104.7	105.1
20°	837.9	792.4	609.0	359.0	175.5	111.0	99.8	98.3	99.2	100.5	100.6
22.5°	857.3	792.7	559.0	271.2	122.8	97.2	95.0	94.4	94.9	96.4	96.5
25°	873.0	788.8	496.3	192.9	98.0	91.6	90.6	90.3	90.6	92.4	92.4
27.5°	879.4	774.5	419.8	135.6	87.8	85.4	85.0	85.4	85.9	87.2	87.3
30°	880.1	749.6	336.4	98.2	79.6	77.0	77.6	78.8	78.3	78.0	78.3
32.5°	881.7	720.7	255.1	80.8	72.7	68.6	67.8	67.8	65.8	64.7	64.0
35°	887.1	686.7	185.0	72.6	65.7	60.9	57.8	54.2	50.4	48.4	47.9
37.5°	895.7	651.1	132.5	67.1	59.4	54.0	48.1	41.7	36.3	34.8	34.8
40°	911.3	614.3	98.0	62.9	54.5	47.8	38.9	30.5	25.6	24.8	24.8
42.5°	935.9	575.5	78.1	59.1	50.2	41.4	29.7	22.2	18.6	18.1	17.9
45°	961.5	532.9	68.3	55.5	45.6	34.0	22.0	16.4	14.3	13.8	13.8
47.5°	987.1	487.4	63.5	52.0	41.2	26.4	16.4	13.0	12.0	12.0	12.1
50°	1008.8	440.0	60.1	48.3	35.5	20.0	13.0	11.0	10.7	11.3	11.5
52.5°	1014.2	393.3	55.8	43.5	28.4	15.3	10.7	9.7	9.7	9.7	9.7
55°	1010.9	357.2	50.2	37.6	21.0	12.1	9.2	8.5	8.4	8.4	8.4
57.5°	1022.1	335.9	40.2	29.2	15.1	9.8	8.0	7.6	7.2	7.1	7.1
60°	1044.6	321.9	28.7	21.0	11.3	8.2	6.9	6.4	5.9	5.6	5.6
62.5°	1074.4	309.8	21.3	15.6	8.7	6.6	5.7	5.3	4.6	4.3	4.3
65°	1097.4	288.1	16.3	11.7	6.6	5.3	4.4	4.3	3.3	3.0	2.8
67.5°	1062.3	240.5	13.1	8.5	4.9	4.1	3.4	3.3	2.0	1.6	1.6
70°	911.1	167.4	10.5	6.2	3.6	3.3	2.8	2.1	1.5	1.3	1.3
71°	826.2	139.9	9.5	5.3	3.1	3.1	2.6	1.8	1.3	1.1	1.1
72.5°	686.4	99.3	8.0	4.1	2.8	3.3	2.8	1.6	1.3	1.1	1.0
75°	398.4	41.5	5.6	2.8	2.1	3.9	3.6	1.5	1.0	0.8	0.8
77.5°	119.8	15.3	3.1	1.8	1.6	3.4	4.1	1.3	0.5	0.2	0.2
80°	21.8	6.6	2.0	1.1	1.1	2.1	3.1	0.7	0.0	0.0	0.0
82.5°	7.7	3.3	1.1	0.7	0.5	1.0	1.5	0.0	0.0	0.0	0.0
85°	4.4	2.3	0.7	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0
87.5°	3.0	0.7	0.0	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)