

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: P323345

Luminaire Tested: **GAN-SA1A-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3211 lumens
Efficiency: N/A
Efficacy: 94.4 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

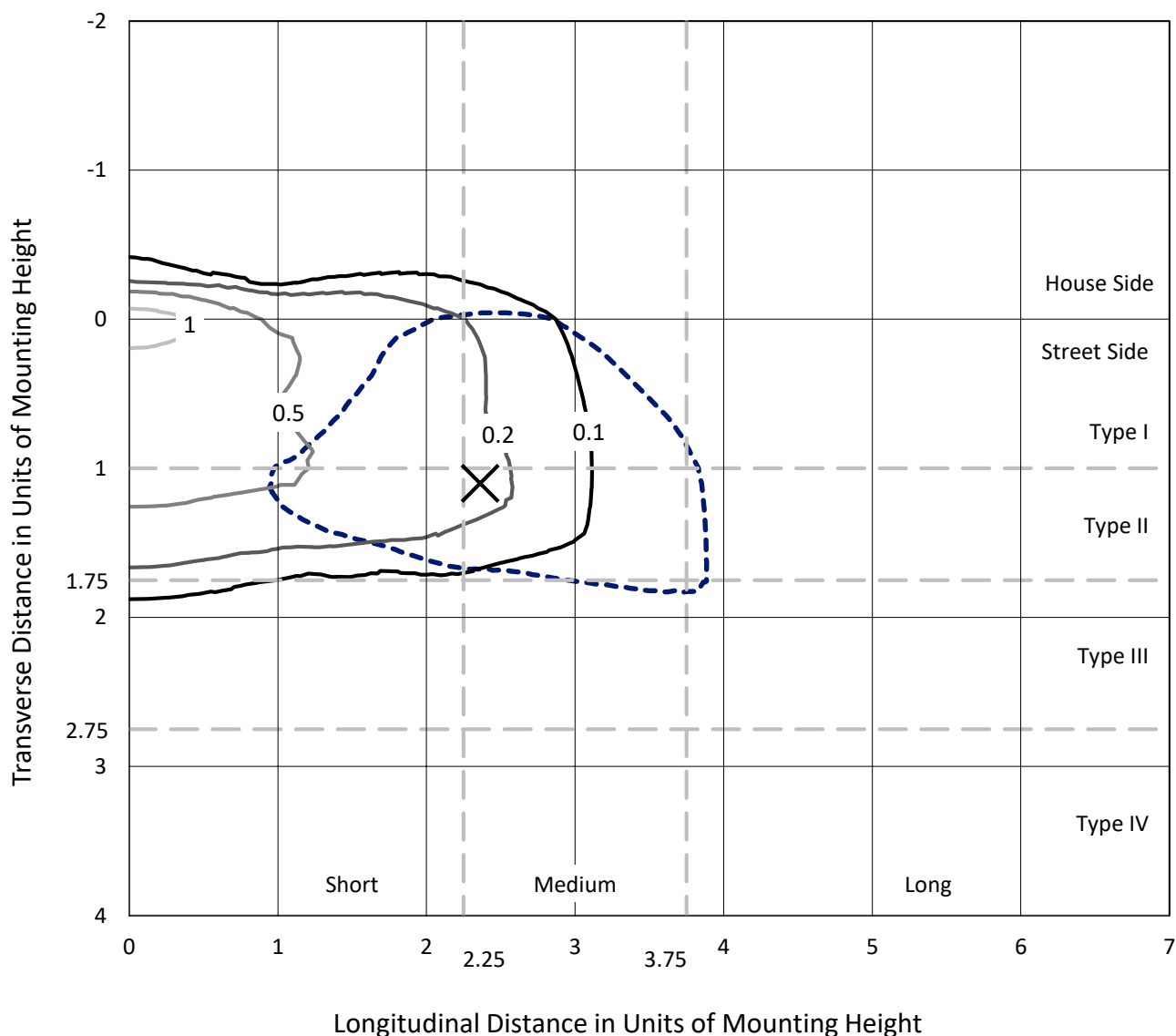
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

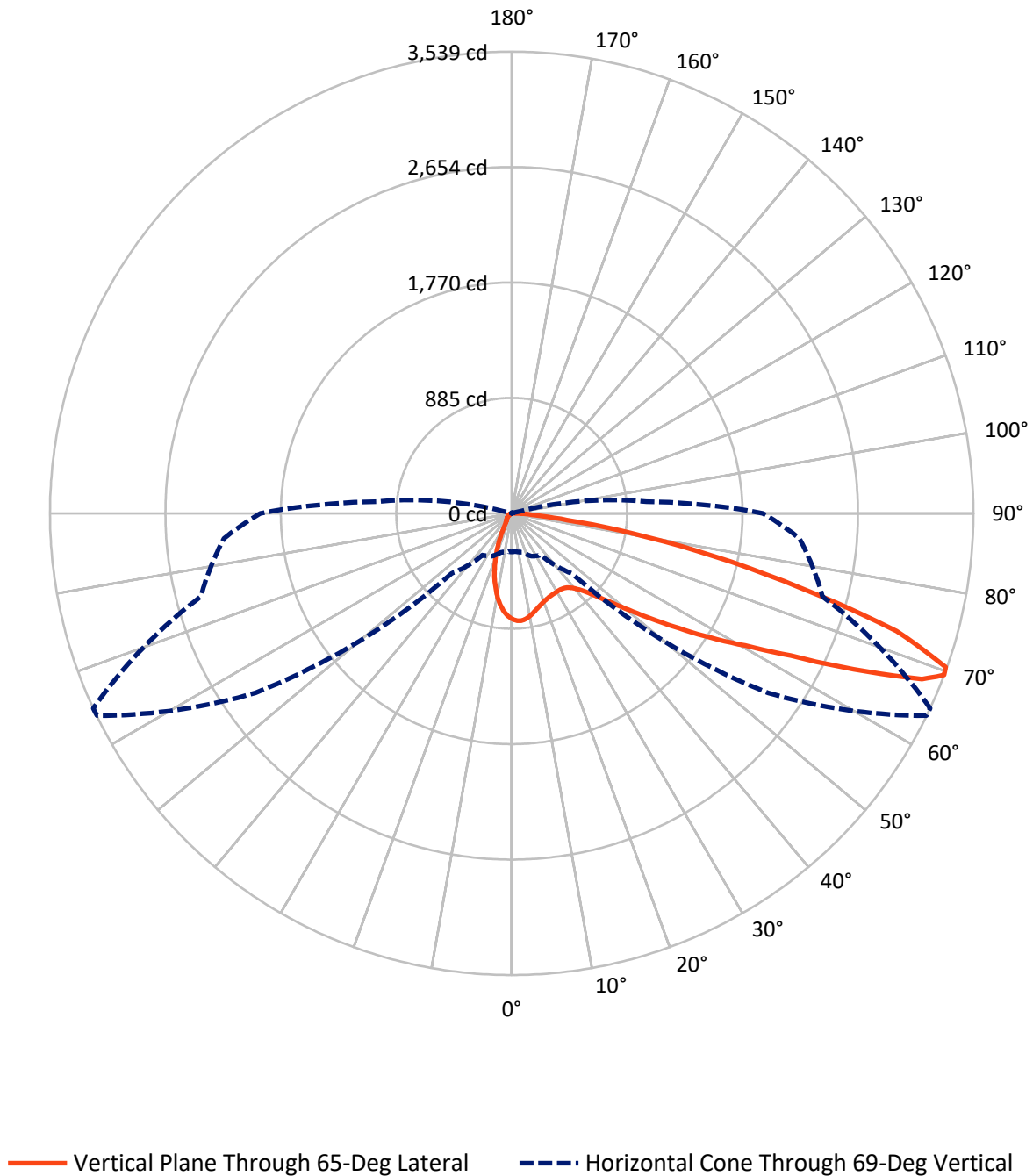
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.5	0.0	378.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2832.5	0.0	2832.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	3211.0	0.0	3211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	2.1
10°-20°	148.5	4.6
20°-30°	205.7	6.4
30°-40°	286.8	8.9
40°-50°	445.8	13.9
50°-60°	715.8	22.3
60°-70°	809.6	25.2
70°-80°	475.5	14.8
80°-90°	55.3	1.7
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°	3211.0	100.0
0°-180°	3211.0	100.0

Coefficient of Utilization



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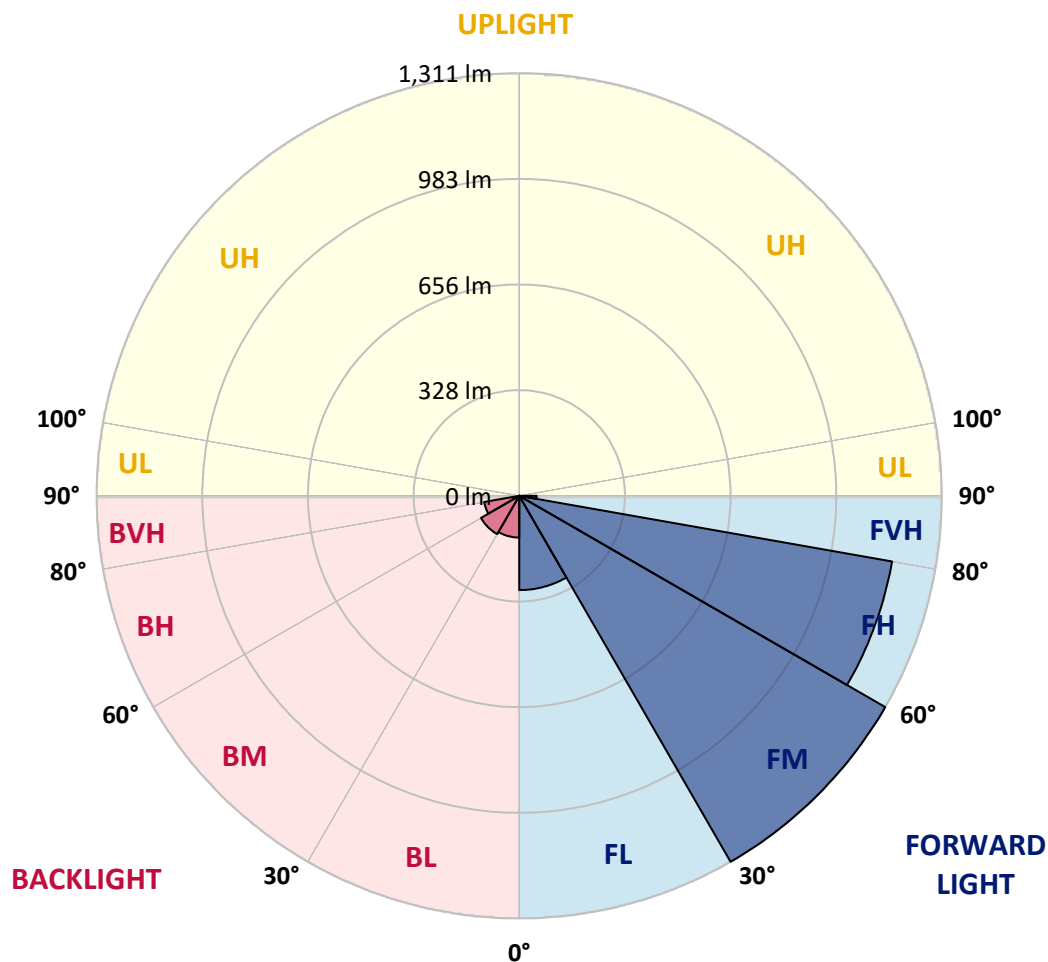
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.6	9.1			
FM	(30°-60°)	1311.3	40.8			
FH	(60°-80°)	1174.6	36.6			G1/1800
FVH	(80°-90°)	54.1	1.7			G1/100
BL	(0°-30°)	129.5	4.0	B1/500		
BM	(30°-60°)	137.2	4.3	B0/220		
BH	(60°-80°)	110.6	3.4	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	55°	64°	65°	75°	85°
0°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4
2.5°	818.6	816.6	818.2	821.8	823.5	823.5	824.9	823.2	823.8	819.8	814.1
5°	767.4	764.3	768.8	778.7	790.9	801.4	816.9	825.0	825.8	826.0	819.3
7.5°	712.2	709.4	716.0	727.7	743.5	762.9	790.0	813.6	815.0	827.7	822.8
10°	667.4	665.4	673.1	685.6	704.1	725.8	759.0	791.9	795.8	824.1	822.3
12.5°	631.8	630.2	637.5	651.9	670.8	694.8	729.5	767.7	773.0	815.8	819.6
15°	605.9	605.6	611.7	625.6	646.5	668.9	704.4	745.3	751.4	806.8	819.2
17.5°	592.3	592.7	597.2	609.0	626.9	649.2	683.2	726.4	733.0	798.8	821.2
20°	590.9	591.3	593.8	600.4	615.0	634.7	665.9	710.5	717.4	792.8	824.5
22.5°	602.9	602.6	603.3	602.6	610.7	625.7	654.5	698.2	706.3	788.9	827.1
25°	625.8	625.4	625.1	620.1	614.7	622.7	649.7	691.3	698.9	786.0	828.5
27.5°	657.8	657.5	657.1	648.8	632.5	627.5	650.3	688.7	695.1	783.7	828.3
30°	699.7	701.6	701.1	689.5	664.1	642.0	656.0	687.4	692.9	779.2	825.4
32.5°	749.1	752.9	755.9	743.5	711.7	670.8	669.2	688.9	692.9	775.8	820.3
35°	800.3	805.2	816.2	811.8	770.0	714.1	691.9	697.8	701.2	777.7	817.8
37.5°	850.7	856.5	880.4	893.1	846.3	771.5	727.2	720.0	721.8	789.3	820.5
40°	909.3	918.1	954.4	974.7	937.5	848.2	780.0	758.0	758.7	814.7	833.2
42.5°	986.2	995.3	1034.5	1066.5	1040.2	945.3	851.8	816.2	815.5	862.2	862.9
45°	1079.9	1089.4	1130.0	1165.5	1153.7	1060.2	943.6	901.1	900.3	937.2	919.3
47.5°	1186.2	1195.5	1231.8	1268.4	1281.1	1194.4	1060.6	1017.0	1015.1	1041.5	1006.4
50°	1277.3	1283.4	1316.9	1366.1	1423.7	1359.4	1206.1	1164.1	1162.1	1179.9	1134.3
52.5°	1310.5	1314.0	1348.0	1416.9	1560.6	1582.8	1397.3	1343.2	1341.7	1349.5	1304.5
55°	1243.4	1249.7	1291.5	1393.6	1634.8	1835.2	1638.6	1565.0	1553.7	1537.0	1482.5
57.5°	1060.5	1070.7	1115.5	1251.4	1600.2	2035.5	1993.2	1815.8	1799.2	1697.0	1627.2
60°	794.6	807.1	844.3	990.9	1415.2	2106.8	2380.7	2095.3	2057.9	1824.5	1760.2
62.5°	545.3	551.5	576.8	672.3	1042.3	1990.0	2704.9	2469.6	2401.4	1963.1	1904.1
65°	416.4	418.6	428.9	461.8	620.7	1616.5	2833.9	2963.5	2881.0	2128.8	2053.4
67.5°	335.6	333.8	348.1	395.1	415.6	986.2	2683.5	3430.8	3392.2	2350.4	2203.7
69°	295.9	293.5	308.0	362.6	390.4	651.9	2398.9	3536.9	3539.3	2467.4	2214.0
70°	266.3	267.9	282.3	343.3	381.8	511.7	2127.2	3509.8	3529.1	2511.2	2152.1
72.5°	177.9	182.2	211.1	285.1	367.1	387.2	1284.4	3011.9	3086.1	2412.7	1846.4
75°	100.3	103.5	137.9	214.9	345.9	368.8	678.4	2218.9	2290.7	2017.6	1423.8
77.5°	49.2	51.0	78.0	138.7	289.3	351.4	384.8	1507.2	1589.2	1316.9	805.3
80°	20.8	21.7	39.0	85.6	206.8	335.3	285.7	927.6	937.8	515.9	214.5
82.5°	8.0	8.3	16.4	53.4	131.4	261.4	239.0	439.8	429.2	97.1	48.9
85°	1.0	1.1	6.0	32.1	73.1	134.5	194.2	189.5	175.4	19.3	25.1
87.5°	0.0	0.0	0.4	9.8	21.7	63.0	101.0	78.7	70.9	6.3	13.0
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°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4
2.5°	809.4	808.0	800.7	790.1	780.0	767.5	755.6	748.4	742.7	738.9	743.4
5°	811.6	805.6	783.3	754.8	726.8	695.3	665.9	641.0	631.3	620.4	625.3
7.5°	810.9	799.6	759.5	708.7	657.3	604.2	553.9	515.2	495.1	475.4	480.4
10°	807.5	788.5	727.7	652.5	575.6	499.2	427.9	373.6	343.3	315.9	319.8
12.5°	800.0	773.5	690.2	588.1	485.2	384.5	301.0	231.5	194.3	177.9	179.9
15°	795.5	759.0	650.6	522.8	388.7	267.8	184.0	136.8	119.8	114.4	115.1
17.5°	793.4	745.0	609.5	448.2	290.1	170.5	118.9	104.9	101.2	100.3	100.5
20°	791.2	730.9	567.3	374.5	199.9	114.7	97.7	93.6	92.3	91.0	91.3
22.5°	787.5	717.3	521.9	299.7	134.8	93.1	88.0	84.1	81.3	79.8	80.0
25°	783.0	703.0	475.6	223.2	98.4	83.0	78.3	72.7	69.3	66.6	66.7
27.5°	775.8	685.5	427.7	162.5	82.6	74.3	67.9	61.8	56.1	53.0	53.0
30°	765.8	665.6	374.6	116.3	74.1	65.8	58.0	50.4	44.3	41.4	41.2
32.5°	754.6	645.0	320.9	88.2	67.3	57.7	48.9	40.9	35.5	33.2	33.0
35°	745.1	622.7	267.4	73.9	60.5	50.0	40.4	33.6	29.2	27.3	27.2
37.5°	739.0	600.4	215.2	66.0	54.3	42.8	33.8	27.7	24.6	23.1	23.0
40°	738.1	583.8	167.5	60.1	48.6	36.4	28.3	23.5	20.7	19.0	18.9
42.5°	750.4	574.3	128.5	55.0	42.8	30.8	24.0	20.1	17.1	15.5	15.4
45°	782.9	577.3	98.9	50.5	37.0	26.1	20.4	16.7	14.0	12.8	12.5
47.5°	842.1	598.0	78.7	46.1	31.4	22.1	17.4	13.9	11.5	10.3	10.2
50°	947.6	646.5	65.8	41.2	26.2	18.9	14.4	11.3	9.4	8.3	8.2
52.5°	1087.5	732.9	58.7	36.4	21.7	16.0	11.8	9.0	7.3	6.5	6.4
55°	1241.9	837.5	54.1	31.3	17.8	13.3	9.4	7.1	5.7	5.0	4.8
57.5°	1392.5	928.1	49.7	26.2	14.8	10.9	7.5	5.6	4.5	3.8	3.7
60°	1531.0	1011.4	44.7	21.1	12.1	8.6	5.8	4.3	3.5	2.9	2.9
62.5°	1679.2	1075.8	37.8	16.4	9.9	6.5	4.8	3.9	2.9	2.4	2.3
65°	1836.3	1123.7	29.6	12.8	7.7	4.9	3.9	4.1	2.3	1.8	1.6
67.5°	1952.3	1114.1	21.9	10.1	6.0	3.8	3.8	4.3	2.0	1.4	1.2
69°	1926.8	1036.8	18.3	8.7	5.2	3.3	3.5	4.3	1.9	1.2	1.1
70°	1852.7	951.2	16.2	7.7	4.6	3.0	3.4	4.2	1.8	1.2	1.1
72.5°	1543.0	716.5	12.6	5.8	3.7	2.4	2.9	3.7	1.8	1.2	1.0
75°	1160.6	458.6	9.6	4.2	2.7	1.9	2.2	2.7	1.8	1.1	1.0
77.5°	631.5	165.4	6.9	2.9	1.9	1.5	1.5	2.0	1.6	0.8	0.5
80°	162.4	41.6	4.3	1.9	1.5	1.1	1.0	1.4	1.0	0.1	0.0
82.5°	40.1	9.4	2.3	1.4	1.1	0.4	0.4	0.7	0.4	0.0	0.0
85°	22.0	4.6	1.5	1.0	0.5	0.0	0.0	0.1	0.0	0.0	0.0
87.5°	11.3	1.4	0.4	0.3	0.1	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)