

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: P319505

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

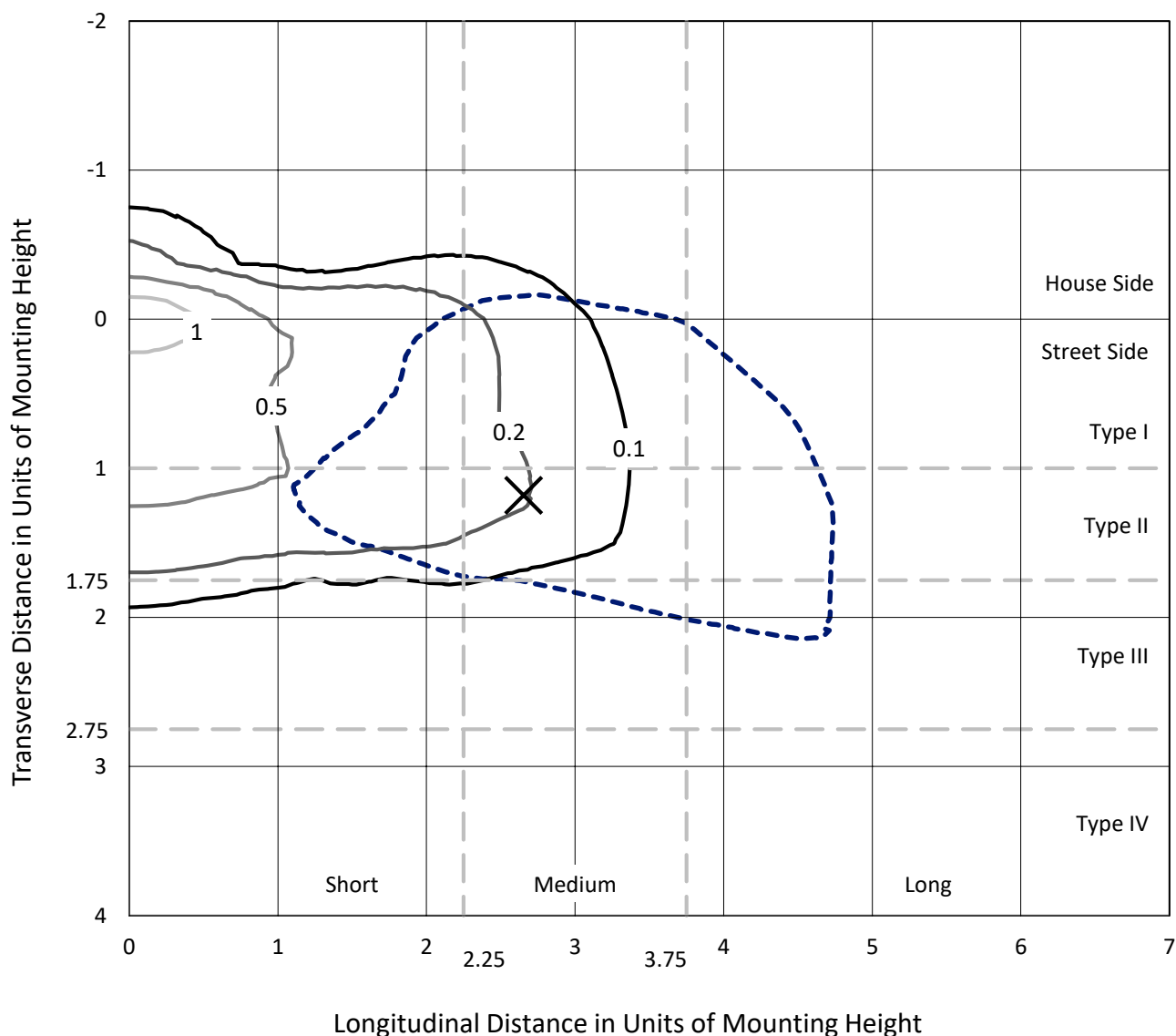
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

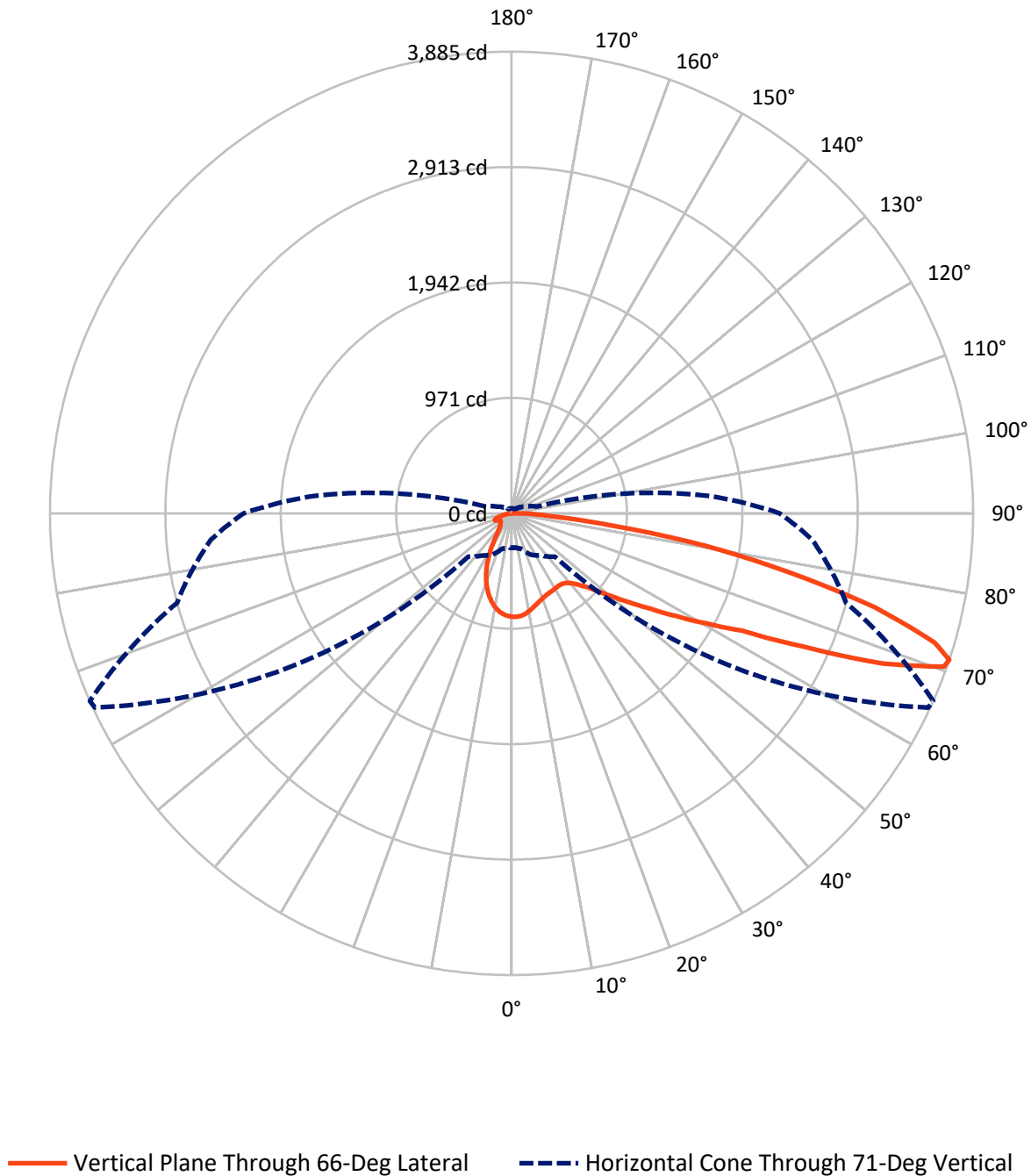
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	703.9	0.0	703.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3094.1	0.0	3094.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	3798.0	0.0	3798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	2.0
10°-20°	183.7	4.8
20°-30°	246.7	6.5
30°-40°	324.6	8.5
40°-50°	472.2	12.4
50°-60°	737.6	19.4
60°-70°	923.9	24.3
70°-80°	704.8	18.6
80°-90°	128.0	3.4
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°	3798.0	100.0
0°-180°	3798.0	100.0

Coefficient of Utilization



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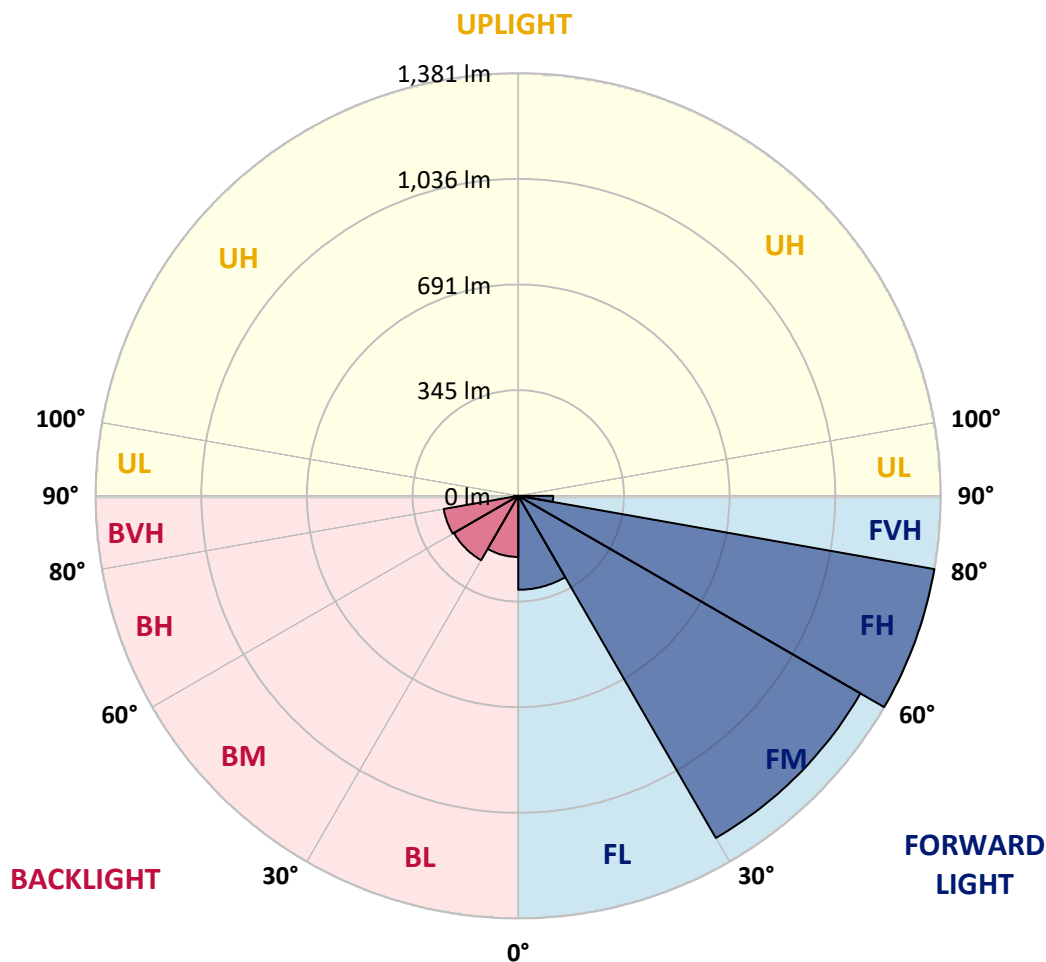
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.1	8.1			
FM	(30°-60°)	1291.5	34.0			
FH	(60°-80°)	1381.4	36.4			G1/1800
FVH	(80°-90°)	114.1	3.0			G2/225
BL	(0°-30°)	199.9	5.3	B1/500		
BM	(30°-60°)	242.8	6.4	B1/1000		
BH	(60°-80°)	247.3	6.5	B1/500		G1/500
BVH	(80°-90°)	13.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0
2.5°	853.9	852.6	856.5	860.6	862.2	864.8	868.7	871.0	870.8	871.2	869.9
5°	797.3	795.6	803.4	809.9	822.2	836.1	853.0	865.1	865.3	872.1	874.0
7.5°	743.6	742.5	751.5	761.9	776.2	797.4	824.8	850.8	852.3	870.8	877.3
10°	700.6	700.4	709.2	720.4	737.1	760.8	792.3	830.3	832.7	864.5	877.8
12.5°	667.1	667.6	675.2	688.0	705.6	730.4	764.5	807.4	811.2	854.6	874.8
15°	642.3	644.4	650.5	663.5	680.8	706.0	741.0	786.1	791.9	843.4	873.1
17.5°	628.1	630.5	634.8	645.6	661.8	686.1	719.2	768.7	773.9	834.9	873.2
20°	623.9	625.9	628.4	634.9	648.7	670.7	702.1	752.9	758.6	828.1	874.5
22.5°	632.2	633.6	633.9	633.4	641.8	659.7	689.6	741.4	747.4	823.6	875.4
25°	649.9	651.8	650.4	645.6	642.8	653.8	683.2	733.8	739.8	820.3	873.6
27.5°	676.5	676.8	675.6	669.3	656.3	654.5	681.2	729.3	735.1	816.5	869.8
30°	712.7	714.4	712.3	703.8	682.5	665.0	683.6	725.0	730.3	811.7	863.6
32.5°	755.0	759.2	759.1	750.2	719.8	688.4	693.3	722.4	726.5	806.6	856.1
35°	799.0	804.7	815.5	811.7	774.1	725.5	711.9	726.6	729.3	805.9	850.9
37.5°	844.6	850.4	872.5	882.8	838.7	778.7	741.3	741.4	742.7	813.9	850.5
40°	892.3	898.5	931.8	958.4	922.5	845.9	788.6	772.4	770.9	833.6	858.2
42.5°	959.2	964.7	1004.7	1038.7	1015.5	932.1	854.1	820.1	817.1	872.1	883.0
45°	1043.8	1048.5	1091.0	1127.3	1115.4	1030.4	936.3	885.8	885.3	936.4	933.3
47.5°	1144.4	1148.0	1186.2	1221.3	1225.7	1143.6	1039.6	987.1	978.6	1024.5	1011.0
50°	1249.1	1253.2	1279.2	1316.9	1349.1	1295.0	1172.6	1111.3	1099.9	1140.8	1121.2
52.5°	1318.5	1323.9	1346.4	1394.3	1487.8	1461.1	1329.8	1261.9	1244.6	1281.8	1266.7
55°	1287.6	1299.6	1334.1	1410.8	1598.7	1714.7	1523.7	1437.4	1417.9	1448.9	1439.9
57.5°	1146.9	1163.4	1210.5	1328.9	1614.3	1938.1	1816.9	1644.2	1630.5	1621.6	1625.6
60°	889.7	905.6	963.9	1118.3	1505.6	2101.2	2258.2	1899.2	1879.2	1794.9	1798.6
62.5°	629.7	621.7	661.7	774.6	1223.4	2120.4	2760.3	2240.1	2174.5	1978.0	1961.8
65°	480.2	478.4	496.3	532.3	741.0	1891.3	3059.4	2813.1	2710.7	2193.3	2155.3
67.5°	394.6	391.3	409.0	461.3	477.2	1220.2	3066.0	3478.0	3377.4	2461.3	2379.0
70°	324.4	320.7	337.3	404.8	441.0	618.8	2580.4	3867.3	3861.9	2800.7	2547.9
71°	290.8	288.2	308.0	383.0	433.3	515.7	2227.9	3868.3	3884.5	2915.5	2537.9
72.5°	236.8	237.7	258.7	340.9	427.5	455.4	1637.4	3688.0	3722.1	3025.0	2447.3
75°	157.4	158.1	185.7	262.3	414.5	445.6	899.9	3094.7	3157.4	2959.5	2233.1
77.5°	105.7	105.4	124.2	179.9	361.1	445.6	527.7	2314.6	2383.4	2354.8	1721.6
80°	72.8	72.3	85.5	124.2	273.4	451.0	407.9	1622.1	1642.9	1271.7	699.7
82.5°	44.6	45.0	55.9	87.7	186.1	405.8	385.1	884.5	861.8	356.7	174.8
85°	25.6	25.4	35.7	59.4	119.5	342.5	375.6	380.7	349.2	107.4	63.2
87.5°	9.2	9.8	19.1	32.9	68.4	238.5	318.6	198.0	178.5	48.5	28.6
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°	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0
2.5°	869.0	869.8	868.9	863.6	859.2	852.0	847.9	842.2	840.5	839.8	841.9
5°	872.3	872.5	864.8	851.0	835.6	817.3	804.2	788.1	780.5	777.2	779.3
7.5°	875.3	874.1	857.2	830.8	802.3	770.5	742.3	716.5	701.4	695.3	695.8
10°	875.7	870.7	843.6	802.8	758.5	711.9	668.6	628.8	603.6	587.2	592.2
12.5°	871.6	863.2	823.5	766.5	705.0	641.5	583.0	523.2	487.3	470.6	471.2
15°	868.5	853.3	798.8	723.7	641.1	557.0	477.2	406.9	368.6	351.6	343.6
17.5°	865.9	842.5	770.3	675.6	565.7	459.1	363.1	300.4	279.4	274.5	272.4
20°	862.2	831.1	738.4	619.9	479.8	349.5	265.1	234.2	234.3	240.1	240.9
22.5°	857.1	818.1	704.4	557.3	387.6	254.5	207.8	198.9	208.0	219.0	221.0
25°	849.5	802.8	666.7	488.2	295.6	195.6	177.6	177.2	188.2	199.7	201.4
27.5°	838.7	782.7	624.7	414.0	217.8	166.3	159.1	161.8	169.9	178.3	179.0
30°	824.3	759.4	578.4	335.7	170.7	148.0	147.3	149.8	154.7	160.6	161.2
32.5°	808.4	735.6	529.0	259.9	146.2	138.2	139.0	140.2	142.5	144.9	145.4
35°	794.0	711.4	478.4	197.5	134.5	131.8	131.3	131.0	131.3	130.5	130.6
37.5°	784.7	691.3	425.6	157.2	127.9	126.1	124.6	122.6	120.4	119.1	119.3
40°	781.3	676.4	372.3	135.9	122.3	121.2	118.1	114.0	111.3	110.5	110.5
42.5°	790.5	668.6	320.7	125.1	117.8	115.8	110.8	106.0	104.0	103.9	103.7
45°	818.5	671.8	271.7	119.2	113.6	109.8	103.2	99.1	97.8	98.1	98.0
47.5°	868.9	691.6	229.7	115.3	109.4	104.4	97.0	93.8	92.2	92.2	92.3
50°	954.5	737.9	196.3	112.0	105.8	99.4	92.6	88.5	86.4	86.3	86.3
52.5°	1079.2	820.7	175.5	109.2	101.9	94.9	88.1	83.0	80.5	80.0	79.7
55°	1235.5	939.5	169.7	107.4	96.6	90.1	82.7	77.6	74.9	73.7	73.6
57.5°	1410.3	1084.1	181.1	105.2	91.3	84.3	76.8	72.0	69.1	67.7	67.5
60°	1587.2	1241.8	227.6	102.0	86.8	78.0	70.8	66.4	63.5	61.9	61.6
62.5°	1764.4	1408.1	322.7	101.8	83.7	72.0	64.6	60.8	58.1	56.4	56.0
65°	1964.2	1590.1	430.8	108.7	82.6	66.5	58.4	55.3	53.0	51.4	51.3
67.5°	2193.7	1795.6	420.4	123.0	86.2	61.5	52.5	50.1	48.4	47.1	46.9
70°	2301.3	1763.4	261.3	133.1	91.1	56.6	46.8	45.1	43.8	42.9	42.5
71°	2256.2	1674.4	219.1	131.9	90.6	54.6	44.6	43.3	42.0	41.2	40.8
72.5°	2133.2	1527.0	182.8	122.7	84.7	50.7	41.7	40.4	39.2	38.3	38.0
75°	1914.2	1363.8	146.3	98.1	67.5	42.9	36.6	35.1	34.2	33.7	33.2
77.5°	1407.2	973.2	113.2	77.5	49.7	35.0	31.2	30.2	29.2	28.5	28.1
80°	539.1	377.0	76.2	57.8	36.5	27.7	25.2	24.7	23.7	23.2	23.2
82.5°	145.2	112.6	40.7	35.0	24.4	20.2	19.3	19.0	18.2	17.2	17.3
85°	58.7	49.7	22.8	19.3	14.9	11.9	13.0	13.1	12.2	10.9	11.0
87.5°	25.8	21.1	12.7	8.5	6.6	4.6	5.9	5.9	5.4	4.5	4.1
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)