

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: P192930

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6297.7 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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: 28.75 FT

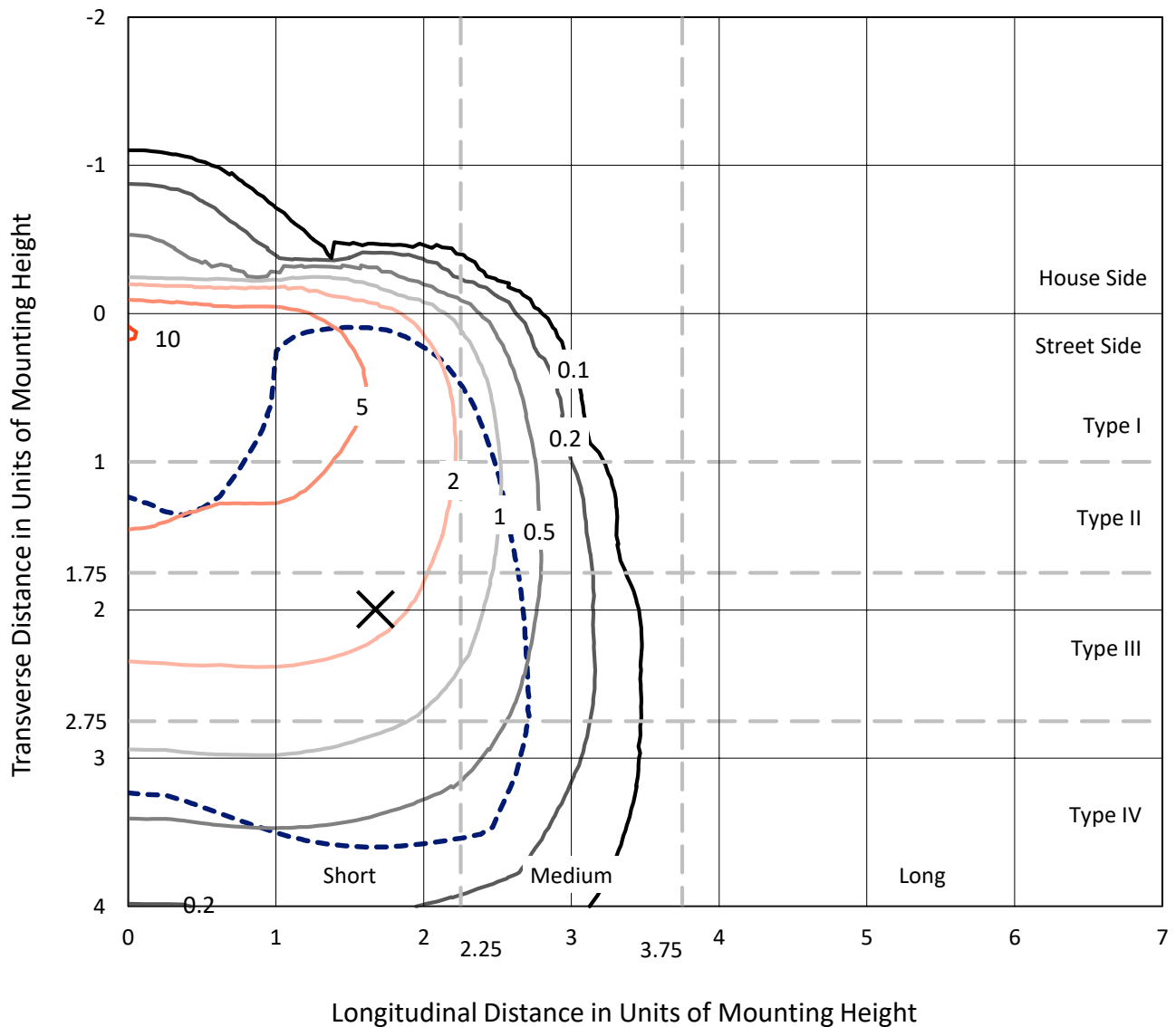


REPORT NUMBER: P192930

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

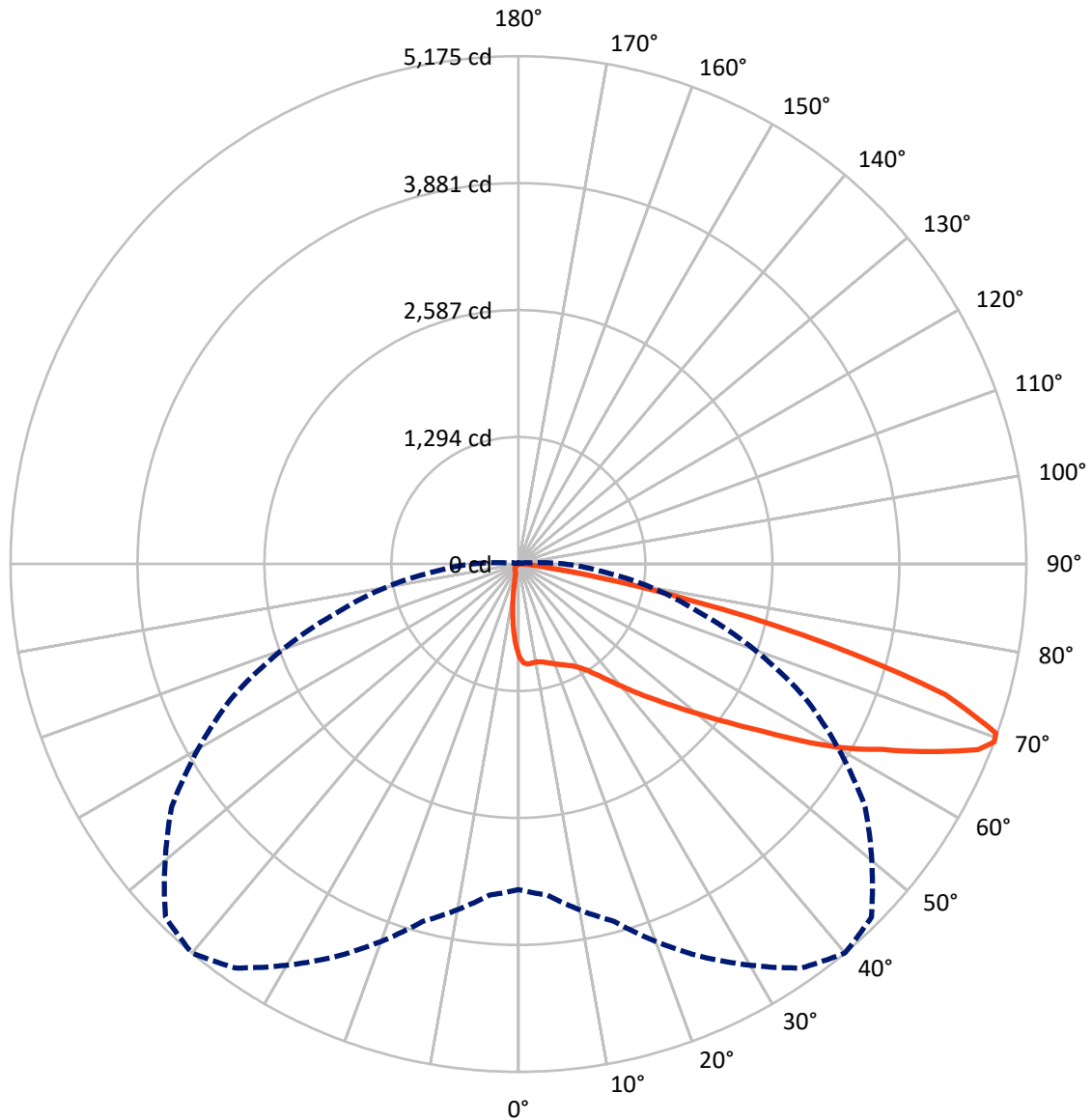


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192930

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	368.4	0.0	368.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5929.2	0.0	5929.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	6297.7	0.0	6297.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.2
10°-20°	187.6	3.0
20°-30°	316.0	5.0
30°-40°	517.3	8.2
40°-50°	895.7	14.2
50°-60°	1410.8	22.4
60°-70°	1842.4	29.3
70°-80°	948.9	15.1
80°-90°	102.6	1.6
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°	6297.7	100.0
0°-180°	6297.7	100.0

Coefficient of Utilization



REPORT NUMBER: P192930

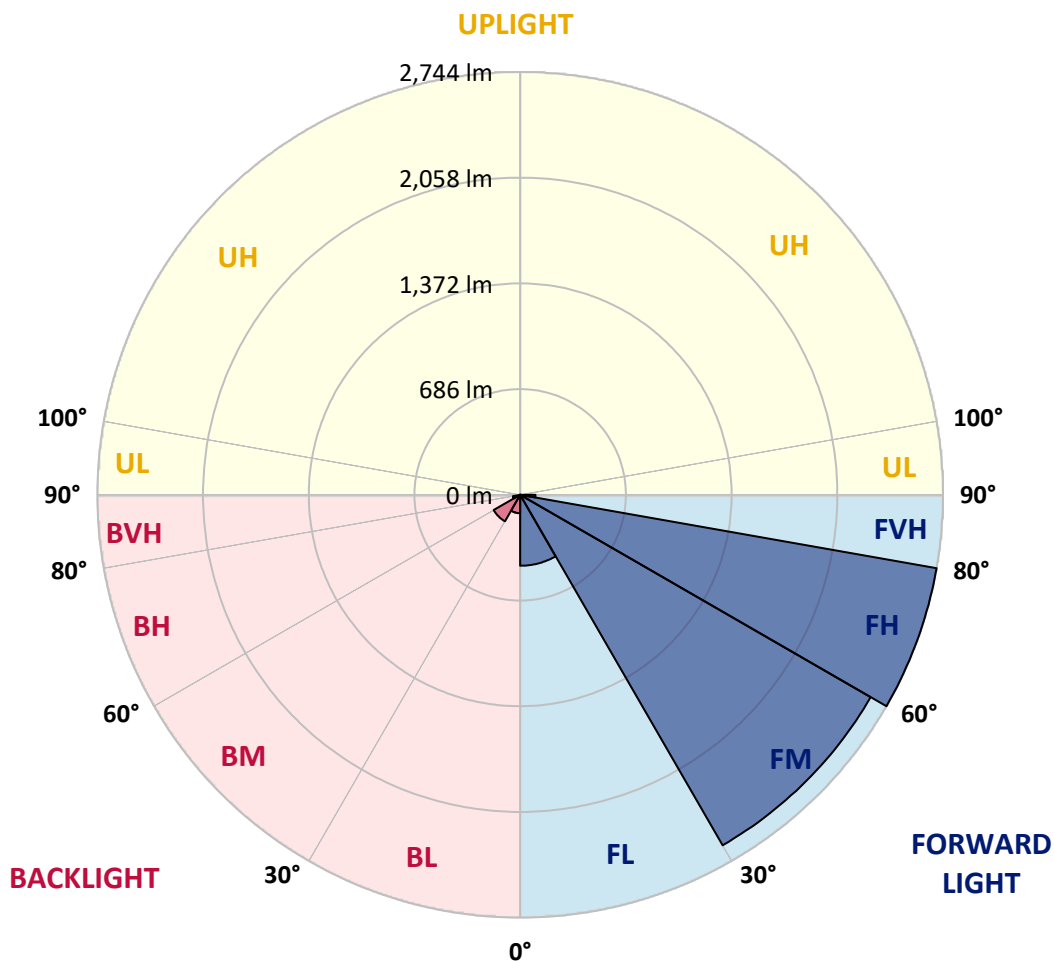
CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.5	7.3			
FM	(30°-60°)	2625.7	41.7			
FH	(60°-80°)	2743.5	43.6			G2/5000
FVH	(80°-90°)	99.4	1.6			G1/100
BL	(0°-30°)	119.4	1.9	B1/500		
BM	(30°-60°)	198.0	3.1	B0/220		
BH	(60°-80°)	47.8	0.8	B0/110		G0/110
BVH	(80°-90°)	3.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P192930

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9
2.5°	1033.1	1027.5	1024.1	1019.6	1014.0	1009.1	1007.3	993.3	980.3	962.2	941.7
5°	1052.2	1050.4	1044.4	1038.4	1031.6	1024.1	1020.1	1003.5	984.8	958.5	922.5
7.5°	1054.2	1051.8	1044.4	1036.1	1026.7	1017.7	1010.6	994.1	976.9	950.2	906.5
10°	1051.1	1048.5	1042.9	1033.9	1022.2	1013.6	1006.5	990.8	976.1	952.2	903.5
12.5°	1047.8	1045.2	1042.6	1038.0	1027.9	1021.9	1015.9	1001.0	987.8	967.5	914.3
15°	1051.1	1049.7	1052.6	1050.7	1045.2	1039.8	1033.9	1020.4	1008.4	991.5	934.1
17.5°	1065.4	1065.4	1074.8	1075.8	1070.6	1063.1	1054.5	1041.0	1030.9	1016.6	957.7
20°	1098.7	1097.6	1109.6	1111.8	1099.1	1087.4	1074.8	1058.2	1050.4	1041.4	981.0
22.5°	1156.1	1150.8	1157.9	1155.8	1130.7	1112.6	1096.9	1076.6	1072.5	1068.3	1007.0
25°	1230.7	1227.6	1232.6	1210.5	1166.3	1141.9	1123.0	1100.2	1100.2	1104.4	1036.1
27.5°	1339.0	1327.7	1311.3	1272.4	1205.9	1174.9	1154.6	1130.2	1136.7	1151.9	1074.8
30°	1450.0	1437.7	1399.7	1339.7	1254.3	1221.7	1198.0	1172.6	1187.5	1215.7	1126.5
32.5°	1559.4	1545.6	1491.9	1416.2	1323.6	1291.0	1268.2	1240.1	1265.1	1312.4	1202.2
35°	1665.5	1653.2	1591.3	1502.1	1415.9	1388.9	1367.9	1343.6	1375.8	1441.6	1309.0
37.5°	1784.7	1771.2	1695.9	1599.1	1528.0	1508.5	1493.1	1468.8	1524.9	1621.6	1457.8
40°	1931.2	1908.4	1806.8	1710.5	1657.7	1648.2	1637.8	1634.4	1721.7	1855.5	1656.2
42.5°	2099.2	2061.7	1923.1	1827.8	1800.0	1806.8	1804.2	1819.1	1968.1	2146.5	1897.7
45°	2267.1	2218.8	2052.4	1953.0	1956.9	1980.5	1995.1	2055.0	2276.5	2480.0	2157.4
47.5°	2409.6	2361.9	2176.5	2088.4	2133.4	2179.8	2219.6	2333.1	2593.7	2808.5	2359.4
50°	2531.4	2486.5	2308.0	2237.2	2338.3	2413.4	2477.9	2646.2	2934.8	3058.5	2501.1
52.5°	2631.2	2601.1	2444.4	2407.7	2572.7	2682.6	2777.1	2978.6	3237.0	3261.7	2611.3
55°	2728.3	2706.9	2591.1	2610.5	2847.9	2997.4	3116.9	3331.5	3497.1	3431.2	2717.1
57.5°	2839.9	2820.5	2758.2	2867.7	3209.6	3397.8	3528.2	3644.1	3726.2	3604.4	2816.7
60°	2954.0	2942.7	2944.2	3153.3	3624.9	3805.6	3877.6	3907.5	3951.1	3767.4	2822.3
62.5°	3062.6	3084.1	3156.7	3471.2	4022.7	4161.3	4197.7	4227.3	4176.3	3793.3	2607.6
65°	3246.7	3281.6	3455.1	3896.7	4460.2	4608.5	4646.0	4544.5	4212.0	3458.8	2120.9
67.5°	3336.7	3400.3	3710.0	4293.4	4884.4	5049.4	5035.5	4565.1	3779.8	2637.5	1361.2
69°	3317.8	3385.7	3768.9	4414.7	5025.4	5174.9	5086.9	4312.8	3220.1	1910.7	835.7
70°	3243.7	3312.3	3738.6	4410.2	5043.4	5161.9	4991.7	4001.3	2722.6	1397.1	522.6
72.5°	2708.7	2768.0	3319.1	3986.4	4646.0	4549.8	4176.0	2772.1	1326.6	380.4	117.7
75°	1667.4	1700.4	2381.6	3003.0	3509.1	3261.7	2782.3	1379.2	395.5	107.6	65.2
77.5°	880.9	895.9	1303.8	1770.1	2224.4	1840.6	1426.0	537.9	182.1	67.5	47.2
80°	520.7	532.0	702.1	809.3	962.7	804.0	570.2	330.3	130.4	42.4	41.9
82.5°	298.1	305.2	509.0	449.8	379.3	323.9	283.7	313.0	78.3	28.5	43.4
85°	109.5	111.0	286.4	342.2	225.6	134.2	141.0	259.4	21.0	18.0	34.1
87.5°	51.1	49.8	147.3	209.6	131.9	85.1	109.8	57.1	8.2	11.6	9.4
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°	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9
2.5°	929.7	915.8	890.7	864.8	838.6	818.4	798.4	782.8	777.5	767.8	768.4
5°	901.2	875.7	823.2	769.9	714.4	668.7	625.6	590.8	573.9	556.6	556.6
7.5°	876.5	839.3	757.2	670.7	581.0	505.7	437.8	386.9	358.7	336.3	335.9
10°	867.1	816.8	702.1	578.1	453.2	350.5	269.9	218.2	191.5	174.3	173.6
12.5°	871.3	808.9	659.7	492.5	335.9	225.3	156.3	122.9	111.7	106.4	106.4
15°	883.2	806.7	617.5	408.9	237.3	141.0	103.8	94.8	94.1	94.1	94.1
17.5°	897.8	807.4	573.9	327.7	161.6	100.8	89.6	88.5	89.3	89.3	89.3
20°	912.8	807.9	527.0	252.3	113.9	87.7	84.3	84.0	84.6	84.6	85.1
22.5°	931.2	809.7	480.2	188.6	94.1	82.8	80.2	80.2	80.7	80.7	80.2
25°	952.2	813.4	431.5	139.9	85.9	79.4	77.2	76.8	77.2	76.8	76.5
27.5°	978.4	818.7	377.2	109.5	82.1	76.1	74.2	74.2	73.9	73.4	73.1
30°	1011.4	824.7	316.0	93.0	78.3	73.1	71.2	70.8	70.5	69.7	69.7
32.5°	1061.6	837.8	255.6	84.3	74.2	69.0	67.5	67.5	66.7	66.0	65.5
35°	1138.8	863.7	201.7	79.1	69.7	64.5	62.6	62.6	61.8	61.5	61.0
37.5°	1245.7	903.0	156.7	74.2	65.2	59.6	57.7	57.4	56.6	55.8	55.5
40°	1387.7	951.7	123.4	69.7	60.7	54.7	53.2	52.5	51.1	49.8	49.8
42.5°	1566.2	1007.3	100.1	64.9	55.5	50.3	49.0	48.0	45.4	44.2	43.8
45°	1752.8	1057.1	84.6	59.2	50.3	45.8	45.1	43.1	39.8	38.6	38.6
47.5°	1887.5	1068.8	74.7	54.0	45.4	40.9	40.5	37.1	34.1	33.4	33.0
50°	1971.4	1045.8	66.3	48.7	40.9	36.4	35.3	31.1	29.3	28.5	28.1
52.5°	2028.0	1004.9	59.6	44.2	36.7	32.2	29.6	26.7	25.1	24.4	24.4
55°	2073.4	947.3	52.9	40.1	33.4	28.9	25.1	22.8	21.5	20.6	20.6
57.5°	2086.1	868.9	46.1	36.7	29.9	25.4	21.5	19.8	18.0	17.6	17.6
60°	1993.6	727.5	40.9	32.6	27.0	22.1	18.8	16.8	15.0	14.6	14.2
62.5°	1749.5	563.0	35.9	28.9	23.6	19.1	16.2	13.8	12.3	12.3	12.3
65°	1334.5	377.5	31.4	25.1	20.6	16.2	13.8	11.3	10.5	10.5	10.8
67.5°	798.8	205.4	27.0	21.5	17.6	13.5	11.6	9.8	9.4	9.8	9.8
69°	468.1	120.7	24.4	19.1	15.4	12.0	10.2	8.6	9.4	9.8	9.8
70°	289.0	81.4	22.5	17.3	13.8	10.8	9.4	8.2	9.0	9.4	9.4
72.5°	80.7	41.9	18.0	13.5	11.3	9.0	7.5	7.5	8.6	9.0	9.0
75°	52.5	31.1	13.8	10.2	8.6	7.1	6.3	7.1	8.2	8.6	8.6
77.5°	43.4	25.4	11.3	8.2	7.1	6.8	6.0	6.3	7.5	7.8	7.8
80°	39.8	18.0	9.0	7.5	6.3	6.0	5.6	5.3	6.8	7.1	7.1
82.5°	37.9	14.2	7.8	6.8	6.0	5.3	4.9	5.3	6.0	6.3	6.8
85°	23.6	9.4	7.1	6.3	5.3	4.9	4.9	4.9	5.6	6.0	6.0
87.5°	8.6	7.5	6.3	5.3	4.5	4.5	4.5	4.5	4.9	5.6	5.6
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)