

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: P321879

Luminaire Tested: **GAN-SA5B-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321879
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-SA5B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18503 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

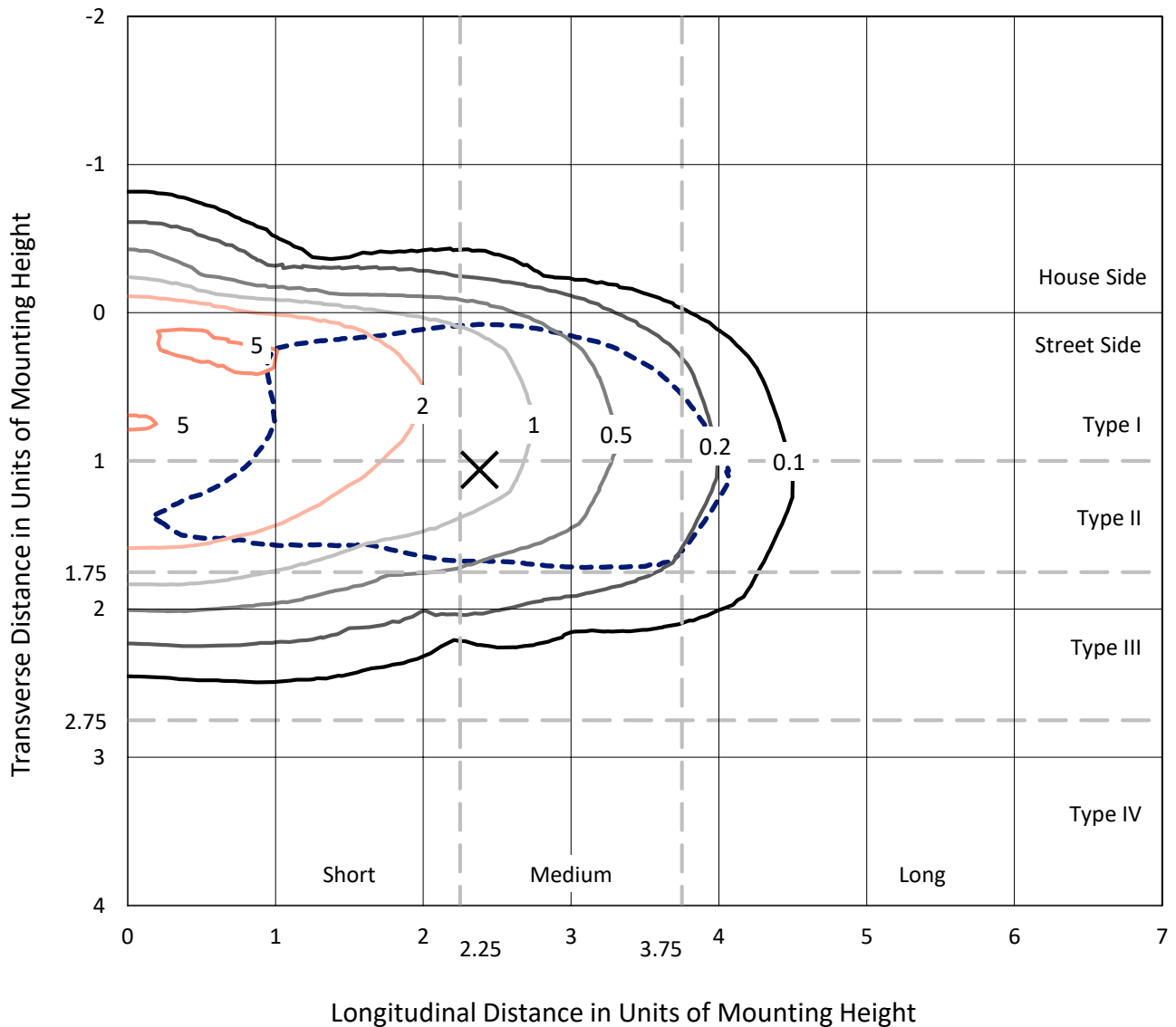
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

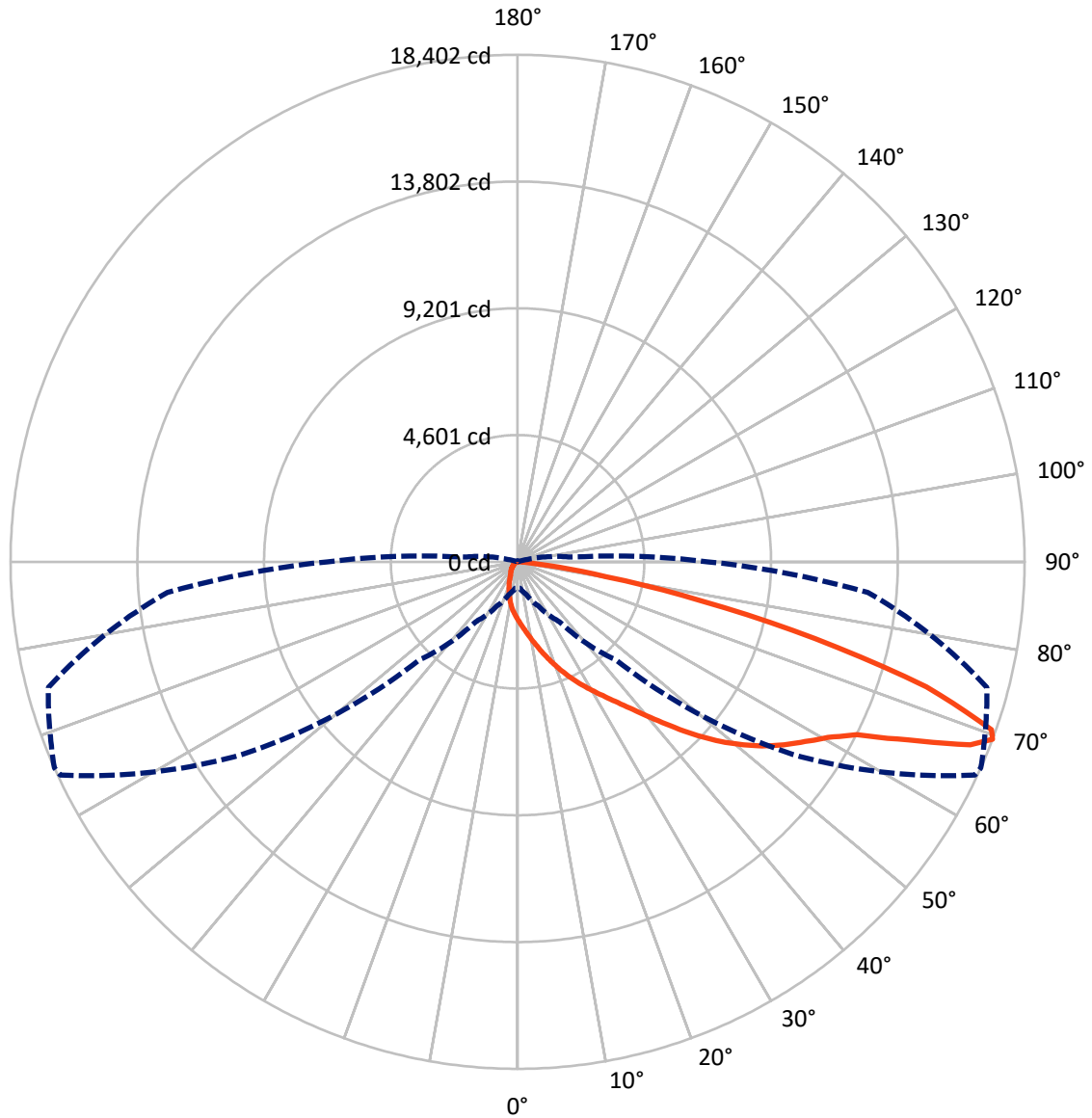
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GAN-SA5B-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.9	0.0	1109.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	17393.1	0.0	17393.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	18503.0	0.0	18503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	1.1
10°-20°	605.8	3.3
20°-30°	1054.9	5.7
30°-40°	1850.8	10.0
40°-50°	3098.0	16.7
50°-60°	4553.7	24.6
60°-70°	4675.5	25.3
70°-80°	2308.2	12.5
80°-90°	152.6	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°	18503.0	100.0
0°-180°	18503.0	100.0

Coefficient of Utilization

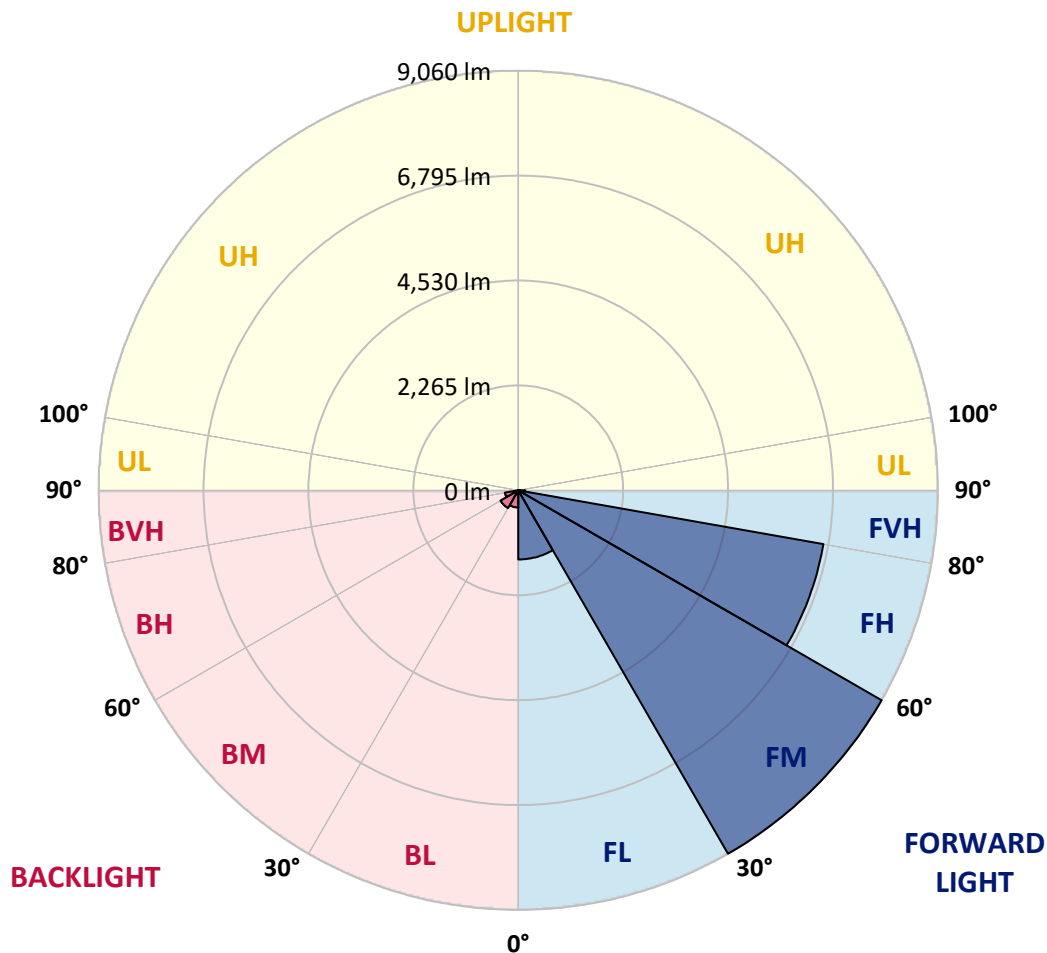


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.0	8.1			
FM (30°-60°)	9060.0	49.0			
FH (60°-80°)	6691.2	36.2			G3/7500
FVH (80°-90°)	148.9	0.8			G2/225
BL (0°-30°)	371.2	2.0	B1/500		
BM (30°-60°)	442.5	2.4	B1/1000		
BH (60°-80°)	292.5	1.6	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7
2.5°	2478.3	2467.8	2463.4	2444.1	2410.7	2385.2	2336.0	2278.8	2268.3	2212.9	2145.2
5°	2800.0	2791.2	2785.0	2757.8	2723.5	2659.4	2569.7	2463.4	2443.2	2337.7	2202.4
7.5°	3024.1	3039.9	3039.9	3022.3	2979.3	2930.9	2821.1	2676.1	2650.6	2488.9	2278.8
10°	3155.0	3174.4	3189.3	3204.3	3198.1	3178.8	3075.1	2911.6	2880.8	2666.4	2367.6
12.5°	3167.3	3186.7	3228.9	3291.3	3351.9	3395.8	3330.8	3172.6	3137.5	2872.0	2473.1
15°	3098.8	3119.0	3184.0	3305.3	3452.1	3580.4	3601.5	3461.8	3425.7	3117.2	2604.9
17.5°	2979.3	2992.5	3085.6	3253.5	3483.7	3719.3	3846.7	3772.0	3738.6	3397.6	2751.6
20°	2890.5	2900.2	2981.9	3162.1	3464.4	3806.3	4078.7	4101.5	4066.4	3698.2	2910.7
22.5°	3042.5	3060.1	3062.8	3148.0	3411.7	3849.3	4282.6	4425.8	4399.5	4017.2	3067.2
25°	3458.2	3478.4	3411.7	3358.9	3456.5	3868.7	4457.5	4758.0	4736.9	4360.8	3224.5
27.5°	4007.5	4028.6	3942.5	3785.2	3691.1	3941.6	4613.0	5095.5	5094.6	4724.6	3394.1
30°	4547.1	4568.2	4480.3	4323.0	4106.8	4148.1	4747.5	5448.8	5454.1	5099.9	3574.2
32.5°	5113.1	5139.5	5048.9	4846.8	4620.9	4504.9	4936.4	5803.9	5833.7	5534.9	3777.3
35°	5756.4	5759.9	5632.5	5420.7	5160.5	4982.1	5239.6	6202.0	6273.2	6073.7	4034.8
37.5°	6387.4	6412.9	6308.3	5974.4	5735.3	5533.2	5690.5	6699.4	6800.5	6731.9	4371.4
40°	6855.0	6908.6	6893.6	6533.3	6306.6	6162.4	6250.3	7290.9	7419.2	7498.3	4795.8
42.5°	7148.5	7188.9	7257.5	7040.4	6834.7	6858.5	6911.2	7979.9	8138.1	8371.8	5283.6
45°	7485.1	7504.4	7561.5	7465.7	7326.9	7565.9	7612.5	8755.9	8922.0	9311.3	5825.0
47.5°	7896.4	7942.1	7957.9	7870.0	7806.7	8191.7	8288.3	9461.6	9694.5	10317.6	6398.0
50°	8420.2	8432.5	8459.7	8402.6	8339.3	8729.5	8894.7	10202.5	10414.3	11327.4	6963.0
52.5°	8932.5	8976.5	9071.4	9035.4	9009.9	9187.4	9435.2	10870.4	11106.8	12169.3	7527.3
55°	9080.2	9118.0	9445.8	9669.9	9877.3	9751.6	9952.0	11468.9	11724.6	12921.6	8070.4
57.5°	8490.5	8566.9	9134.7	9718.2	10578.6	10628.7	10662.1	12083.2	12312.5	13498.1	8635.5
60°	7000.0	7014.9	7946.5	8947.5	10462.6	11394.2	11699.1	12743.2	12935.6	14035.1	9312.2
62.5°	4452.2	4604.2	5626.3	7039.5	9235.7	11283.4	12953.2	13741.5	13811.9	14679.3	10282.4
65°	2120.6	2219.1	2955.5	4349.4	6689.7	9865.9	13818.9	15547.6	15579.2	15956.2	11578.7
67.5°	1174.1	1221.6	1572.2	2341.2	3910.8	6977.1	13469.1	17686.7	17716.5	17260.4	12715.9
69°	918.4	958.8	1234.8	1764.7	2651.5	5014.7	12188.6	18313.3	18402.0	17633.9	12756.4
70°	779.5	819.1	1063.4	1490.5	2132.1	3874.8	10849.3	18157.7	18251.8	17598.8	12454.9
72.5°	477.2	500.1	708.3	1049.3	1429.0	1949.3	6690.6	15356.0	15515.0	16143.4	10704.3
75°	321.7	334.0	442.9	724.2	1022.1	1003.6	3475.8	10823.8	11168.3	12557.7	7906.0
77.5°	230.3	241.7	297.0	468.4	716.3	662.6	1574.0	6726.6	6800.5	7531.7	4311.6
80°	130.9	141.5	210.0	278.6	486.0	442.1	625.7	3213.0	3250.0	3229.7	1439.5
82.5°	68.5	77.3	115.1	183.7	312.0	289.1	260.1	1075.7	1081.0	899.1	315.5
85°	13.2	15.8	57.1	125.7	160.8	125.7	106.3	252.2	257.5	227.6	78.2
87.5°	0.0	0.9	22.8	28.1	31.6	32.5	34.3	49.2	52.7	71.2	21.1
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°	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7	2105.7
2.5°	2115.4	2083.7	2023.1	1952.8	1898.3	1844.7	1802.5	1758.6	1742.7	1734.8	1734.0
5°	2136.5	2069.7	1941.4	1809.5	1701.4	1599.5	1526.5	1457.1	1424.6	1409.7	1403.5
7.5°	2171.6	2064.4	1857.9	1656.6	1501.1	1373.6	1272.6	1197.0	1159.2	1143.4	1137.2
10°	2212.9	2057.4	1760.3	1494.9	1296.3	1164.5	1064.3	989.6	948.3	930.7	921.9
12.5°	2261.3	2045.1	1647.8	1331.4	1121.4	989.6	868.3	776.0	728.6	708.3	698.7
15°	2321.0	2032.8	1530.1	1177.6	967.6	806.8	674.1	611.7	602.0	598.5	599.4
17.5°	2379.9	2013.4	1401.7	1025.6	805.9	630.1	562.5	558.9	560.7	560.7	560.7
20°	2432.6	1969.5	1262.0	895.5	652.1	531.7	517.6	511.5	507.1	503.6	499.2
22.5°	2473.9	1910.6	1127.6	766.3	532.6	486.9	464.9	445.6	429.8	419.2	413.9
25°	2502.1	1832.4	1004.5	642.4	479.0	442.9	403.4	370.9	346.3	331.3	325.2
27.5°	2523.1	1748.0	894.7	537.9	442.1	392.0	340.1	301.4	276.0	262.8	257.5
30°	2538.1	1652.2	798.0	472.8	400.8	338.4	283.0	245.2	226.7	219.7	216.2
32.5°	2552.2	1545.9	706.6	442.1	362.1	289.1	237.3	208.3	196.9	188.1	185.4
35°	2587.3	1447.4	619.6	409.5	322.5	247.0	203.9	182.8	171.4	166.1	164.3
37.5°	2670.8	1374.5	536.1	376.1	283.0	213.6	178.4	163.5	152.9	147.6	145.9
40°	2805.3	1337.6	465.8	340.1	244.3	188.1	161.7	147.6	136.2	128.3	126.6
42.5°	3003.0	1342.9	416.6	304.1	213.6	167.9	145.9	129.2	116.9	109.9	108.1
45°	3242.9	1381.5	382.3	268.9	188.1	152.0	128.3	110.7	99.3	93.2	91.4
47.5°	3503.1	1443.9	354.2	237.3	167.9	137.1	110.7	92.3	82.6	77.3	76.5
50°	3777.3	1504.6	325.2	206.5	150.3	122.2	93.2	76.5	68.5	64.2	62.4
52.5°	4055.0	1574.9	298.8	178.4	135.3	104.6	77.3	62.4	56.2	52.7	51.0
55°	4353.8	1627.6	273.3	156.4	120.4	88.8	64.2	51.9	46.6	42.2	41.3
57.5°	4705.3	1709.3	247.0	135.3	102.8	73.8	52.7	41.3	36.9	32.5	31.6
60°	5179.9	1805.1	218.8	119.5	84.4	60.6	43.1	33.4	28.1	24.6	23.7
62.5°	5805.6	1911.5	183.7	104.6	68.5	49.2	34.3	26.4	20.2	15.8	15.8
65°	6599.2	2084.6	150.3	87.9	56.2	40.4	26.4	19.3	11.4	7.0	7.0
67.5°	7062.4	2114.5	121.3	72.1	45.7	34.3	22.0	13.2	3.5	0.9	0.0
69°	6913.8	1941.4	102.8	61.5	39.5	32.5	20.2	9.7	1.8	0.0	0.0
70°	6634.4	1775.3	90.5	54.5	36.0	30.8	19.3	7.0	1.8	0.0	0.0
72.5°	5482.2	1263.8	68.5	40.4	26.4	27.2	17.6	4.4	1.8	0.0	0.0
75°	3993.4	768.1	49.2	28.1	16.7	20.2	12.3	1.8	0.9	0.0	0.0
77.5°	2221.7	362.1	30.8	15.8	10.5	12.3	6.2	0.0	0.0	0.0	0.0
80°	721.5	98.4	14.1	8.8	6.2	7.0	2.6	0.0	0.0	0.0	0.0
82.5°	133.6	28.1	7.9	4.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.0	11.4	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.5	0.9	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)