

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: P321439

Luminaire Tested: **GAN-SA5B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18319 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

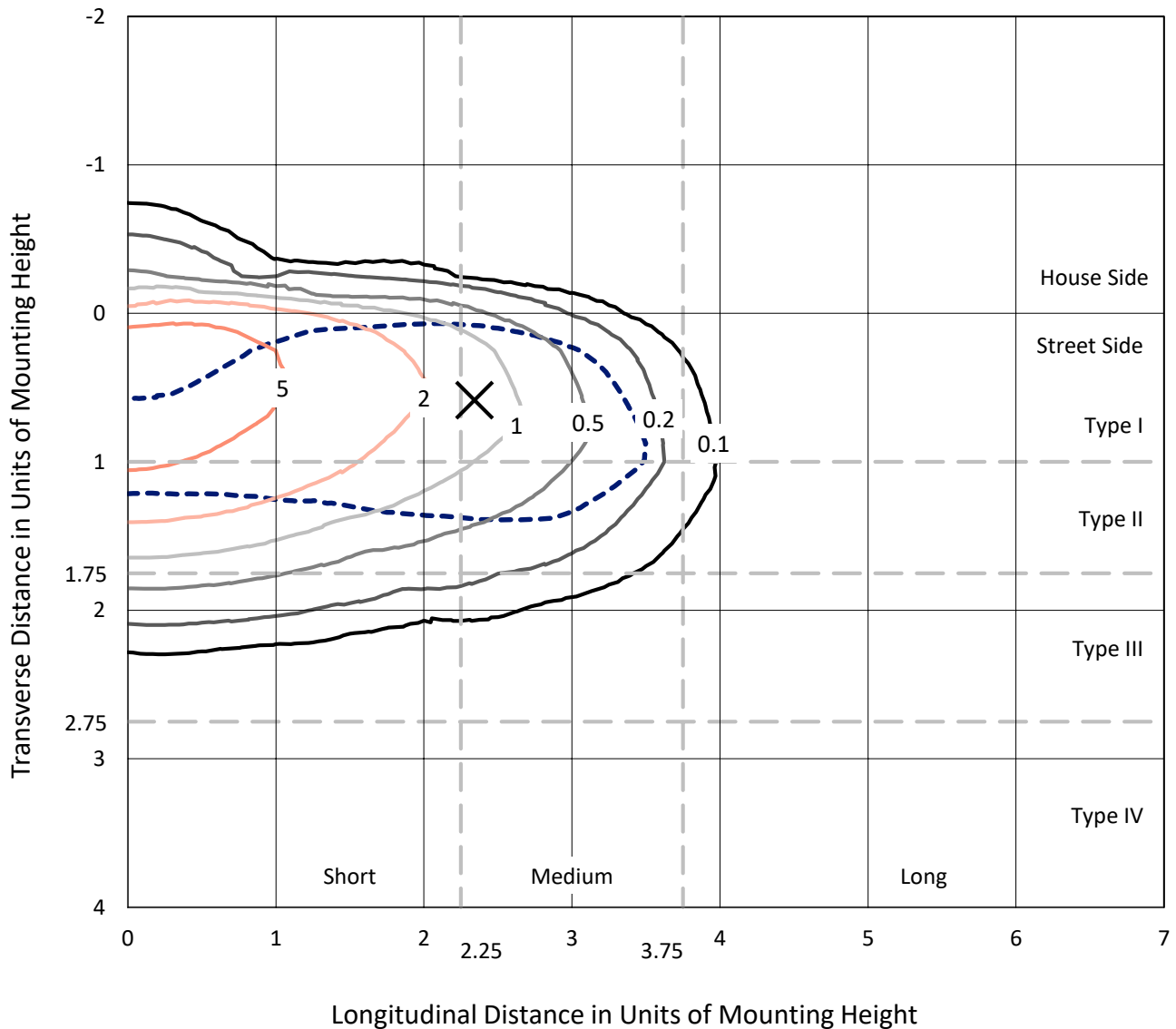
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

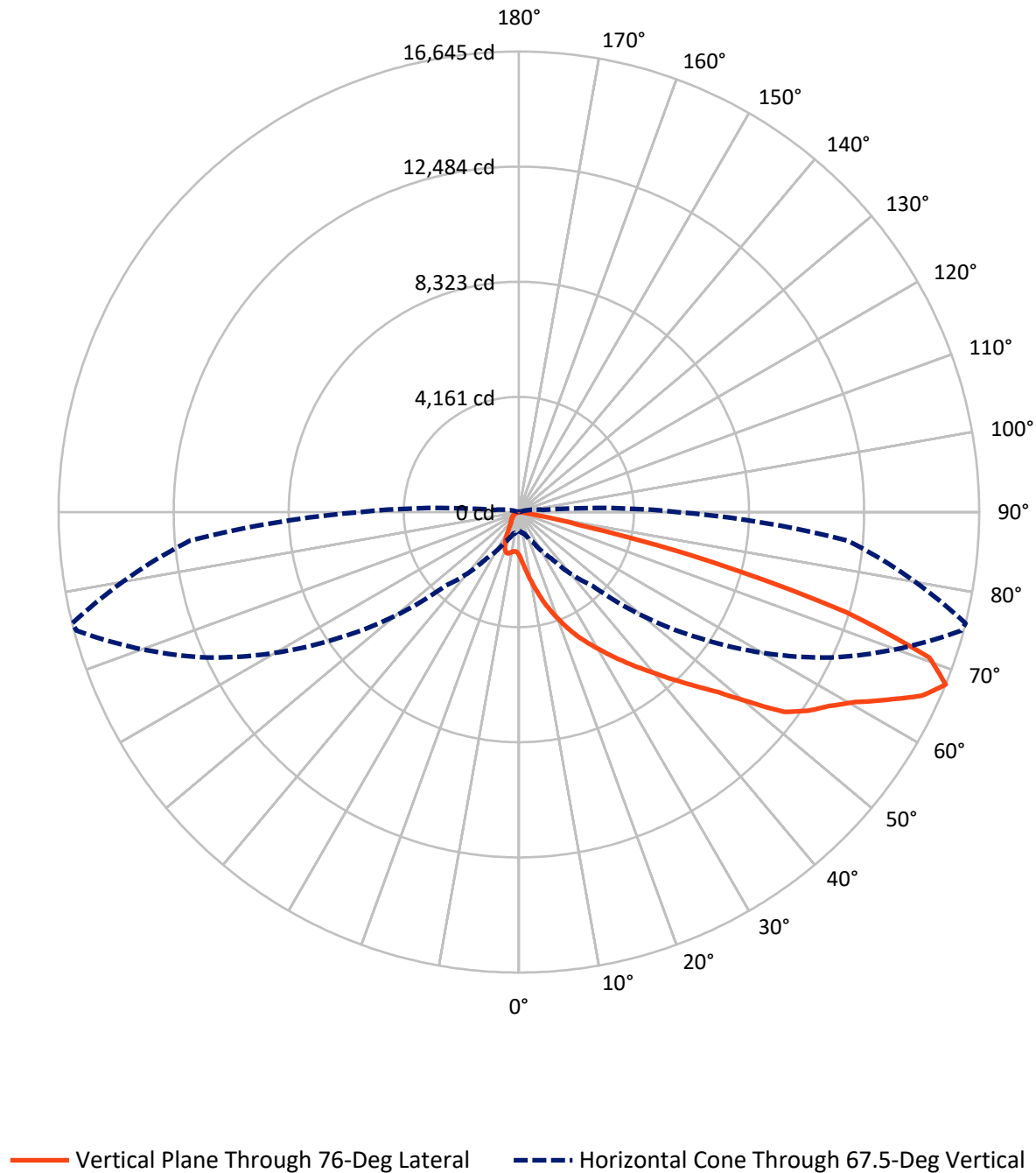
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.7	0.0	909.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17409.3	0.0	17409.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	18319.0	0.0	18319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.1
10°-20°	766.0	4.2
20°-30°	1558.6	8.5
30°-40°	2705.2	14.8
40°-50°	3822.1	20.9
50°-60°	4334.4	23.7
60°-70°	3595.0	19.6
70°-80°	1302.2	7.1
80°-90°	42.2	0.2
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°	18319.0	100.0
0°-180°	18319.0	100.0

Coefficient of Utilization



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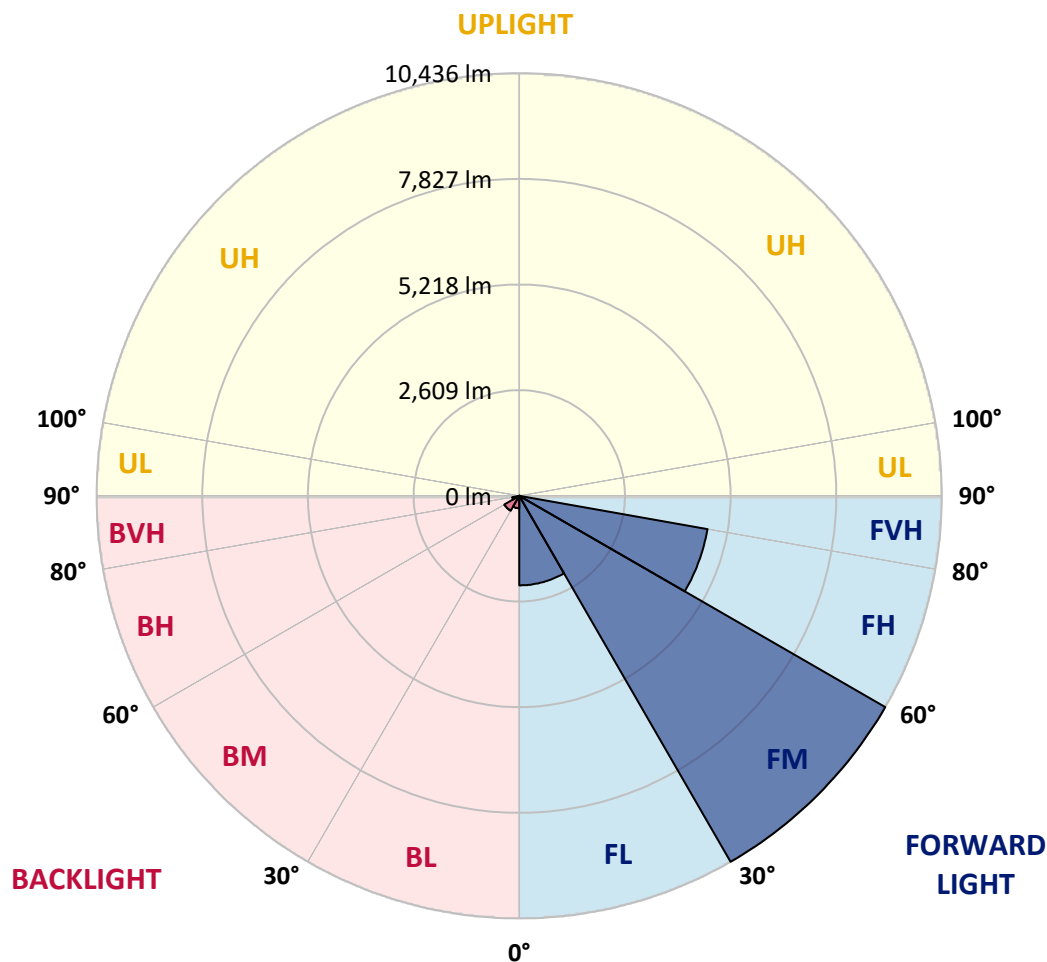
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2211.0	12.1			
FM	(30°-60°)	10436.0	57.0			
FH	(60°-80°)	4721.4	25.8			G2/5000
FVH	(80°-90°)	40.9	0.2			G1/100
BL	(0°-30°)	306.8	1.7	B1/500		
BM	(30°-60°)	425.8	2.3	B1/1000		
BH	(60°-80°)	175.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0
2.5°	2319.7	2267.6	2279.6	2245.9	2184.9	2059.7	1952.9	1851.8	1733.8	1729.8	1632.6
5°	3128.0	3083.9	3078.3	3010.0	2899.3	2686.6	2479.5	2243.5	1980.2	1960.9	1754.7
7.5°	3861.7	3826.4	3813.5	3732.4	3526.2	3319.1	3049.4	2702.6	2290.8	2255.5	1919.2
10°	4425.2	4408.3	4411.5	4353.7	4177.1	3984.5	3630.5	3188.2	2643.2	2588.6	2116.7
12.5°	4852.2	4856.2	4885.1	4849.8	4751.0	4608.2	4230.1	3706.0	3033.3	2958.7	2342.2
15°	5166.0	5186.1	5239.1	5283.2	5276.0	5152.4	4805.6	4231.7	3447.5	3364.8	2593.4
17.5°	5369.1	5391.6	5468.6	5566.6	5656.5	5627.6	5361.1	4739.0	3866.5	3771.0	2862.3
20°	5547.3	5573.8	5656.5	5785.7	5953.5	5989.6	5814.6	5231.0	4284.7	4168.3	3140.1
22.5°	5933.4	5932.6	5983.2	6058.6	6218.3	6311.4	6200.7	5687.8	4698.1	4576.9	3423.4
25°	6631.7	6605.2	6587.6	6528.2	6563.5	6621.3	6559.5	6114.8	5113.9	4991.0	3710.8
27.5°	7461.7	7477.7	7334.9	7175.1	7051.5	6992.1	6891.0	6510.5	5513.6	5378.7	3991.7
30°	8337.4	8342.2	8173.7	7969.8	7697.7	7472.1	7297.1	6888.6	5924.6	5777.7	4264.6
32.5°	9127.2	9095.9	8929.0	8651.2	8307.7	8054.1	7690.4	7310.8	6359.6	6217.5	4568.0
35°	9753.3	9716.4	9513.3	9260.5	8904.1	8648.8	8211.4	7732.2	6817.1	6678.3	4872.2
37.5°	10210.8	10167.5	9958.8	9698.7	9391.3	9242.8	8815.8	8190.5	7316.4	7167.1	5192.5
40°	10369.8	10332.1	10201.2	10011.0	9763.8	9730.0	9457.1	8717.9	7859.8	7700.9	5555.3
42.5°	10275.1	10238.1	10191.6	10127.4	10024.6	10056.7	10062.4	9319.1	8463.4	8306.9	5955.9
45°	9899.4	9866.5	9914.7	10008.6	10136.2	10295.1	10614.6	9965.2	9137.7	8970.7	6419.0
47.5°	9346.4	9322.3	9455.5	9689.9	10063.2	10501.4	11119.5	10644.3	9894.6	9739.7	6996.9
50°	8559.7	8555.7	8822.2	9250.0	9824.0	10600.9	11641.2	11416.5	10946.1	10783.2	7800.4
52.5°	7334.9	7342.9	7867.0	8551.7	9404.2	10533.5	11976.7	12408.6	12169.4	12000.0	8496.3
55°	6168.6	6216.7	6588.4	7575.7	8760.4	10283.1	12092.3	12871.7	12844.4	12683.9	8883.2
57.5°	5026.4	5113.9	5471.8	6394.1	7820.5	9706.0	12028.9	13072.4	13346.9	13224.1	9393.7
60°	3788.6	3828.8	4241.3	5103.4	6614.1	8652.9	11569.0	13181.6	14034.0	13948.9	10134.6
62.5°	2410.4	2510.8	2876.8	3708.4	5150.0	7190.4	10793.6	13179.9	14893.7	14940.2	11090.6
65°	1269.8	1387.0	1581.3	2298.1	3539.0	5556.9	9627.3	13056.3	15948.4	16013.4	11837.9
67.5°	684.7	718.4	821.1	1192.8	2052.4	3764.6	7913.6	12446.3	16559.2	16645.1	11942.2
70°	500.9	519.3	557.9	659.8	1033.0	2186.5	5774.5	11063.3	15771.8	15739.7	10610.6
72.5°	384.5	413.4	442.3	483.2	594.0	1167.1	3595.2	8663.3	12584.4	12372.5	7931.2
75°	303.4	308.2	349.2	386.1	445.5	664.6	1596.5	5045.6	7680.8	7179.1	4112.9
77.5°	242.4	245.6	269.7	301.8	358.0	436.7	494.4	1985.0	2452.2	2188.1	892.6
80°	143.7	151.7	200.7	232.8	297.0	275.3	180.6	431.0	382.9	346.8	150.1
82.5°	80.3	86.7	113.2	183.8	207.1	131.6	89.9	116.4	89.9	87.5	42.5
85°	0.0	4.0	73.0	114.0	84.3	28.9	37.7	38.5	26.5	24.9	16.9
87.5°	0.0	0.0	22.5	21.7	3.2	4.8	8.8	12.8	10.4	10.4	8.8
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°	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0	1554.0
2.5°	1584.5	1541.1	1459.3	1379.0	1311.6	1256.2	1206.4	1186.4	1170.3	1167.9	1155.1
5°	1655.1	1567.6	1411.1	1282.7	1196.8	1135.8	1083.6	1051.5	1026.6	1017.0	1008.2
7.5°	1761.9	1629.4	1404.7	1257.0	1154.2	1051.5	955.2	850.8	785.8	760.9	746.5
10°	1891.9	1711.3	1428.8	1249.8	1070.0	853.2	693.5	561.1	507.3	489.6	484.8
12.5°	2043.6	1813.2	1470.5	1204.8	890.2	606.0	478.4	433.4	421.4	415.8	415.8
15°	2217.8	1924.8	1500.2	1074.8	658.2	458.3	414.2	393.3	380.5	373.2	374.0
17.5°	2396.0	2034.0	1485.8	886.2	485.6	407.8	374.8	352.4	334.7	327.5	325.9
20°	2575.8	2135.1	1405.5	659.8	411.0	370.0	333.1	308.2	290.6	283.3	281.7
22.5°	2762.0	2221.0	1264.2	484.0	369.2	328.3	292.2	267.3	250.4	244.0	240.8
25°	2943.4	2290.8	1066.8	391.7	329.9	289.0	254.4	231.2	215.9	209.5	208.7
27.5°	3112.8	2335.0	838.0	346.0	295.4	253.6	222.3	201.5	188.6	183.8	183.0
30°	3265.3	2339.0	619.7	312.2	264.9	223.1	194.2	175.8	164.5	159.7	158.1
32.5°	3419.4	2305.3	451.1	281.7	236.8	196.7	168.6	154.1	146.1	142.1	142.1
35°	3564.7	2227.4	351.6	255.3	209.5	171.0	148.5	138.1	133.2	129.2	129.2
37.5°	3706.8	2115.9	298.6	232.0	183.8	149.3	130.8	124.4	120.4	116.4	116.4
40°	3851.2	1975.4	271.3	210.3	162.9	132.4	116.4	110.8	106.8	103.5	102.7
42.5°	4028.6	1813.2	253.6	190.2	144.5	117.2	102.7	96.3	93.1	89.9	88.3
45°	4234.1	1673.6	239.2	170.2	129.2	104.3	89.1	82.7	77.9	73.8	73.0
47.5°	4530.3	1572.4	219.9	148.5	114.8	90.7	77.1	69.8	62.6	58.6	57.8
50°	4908.4	1489.0	195.1	129.2	100.3	77.1	64.2	55.4	49.0	44.9	44.9
52.5°	5096.2	1379.8	172.6	112.4	84.3	65.0	52.2	41.7	38.5	34.5	34.5
55°	5171.6	1296.3	150.1	95.5	69.8	53.8	40.9	32.1	29.7	27.3	26.5
57.5°	5383.6	1272.2	130.8	81.1	57.8	42.5	31.3	24.1	22.5	19.3	19.3
60°	5724.7	1284.3	113.2	69.0	46.6	32.9	23.3	18.5	16.9	13.6	13.6
62.5°	6093.1	1269.0	95.5	59.4	36.1	24.1	16.1	13.6	13.6	8.0	7.2
65°	6163.8	1130.2	81.9	49.0	28.1	17.7	10.4	8.8	12.0	1.6	0.0
67.5°	5720.7	876.5	70.6	37.7	20.9	13.6	8.0	4.0	10.4	0.0	0.0
70°	4574.5	557.1	57.0	27.3	16.1	11.2	6.4	1.6	8.0	0.0	0.0
72.5°	3234.8	323.5	44.9	19.3	13.6	8.8	4.8	0.0	4.8	0.0	0.0
75°	1635.9	172.6	28.1	14.4	10.4	6.4	3.2	0.0	0.8	0.0	0.0
77.5°	354.0	80.3	17.7	10.4	7.2	4.0	1.6	0.0	0.0	0.0	0.0
80°	77.1	35.3	11.2	6.4	4.0	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	28.1	18.5	5.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.3	9.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	3.2	0.8	0.8	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)