

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: P321402

Luminaire Tested: **GAN-SA8B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321402
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-SA8B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 27176 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

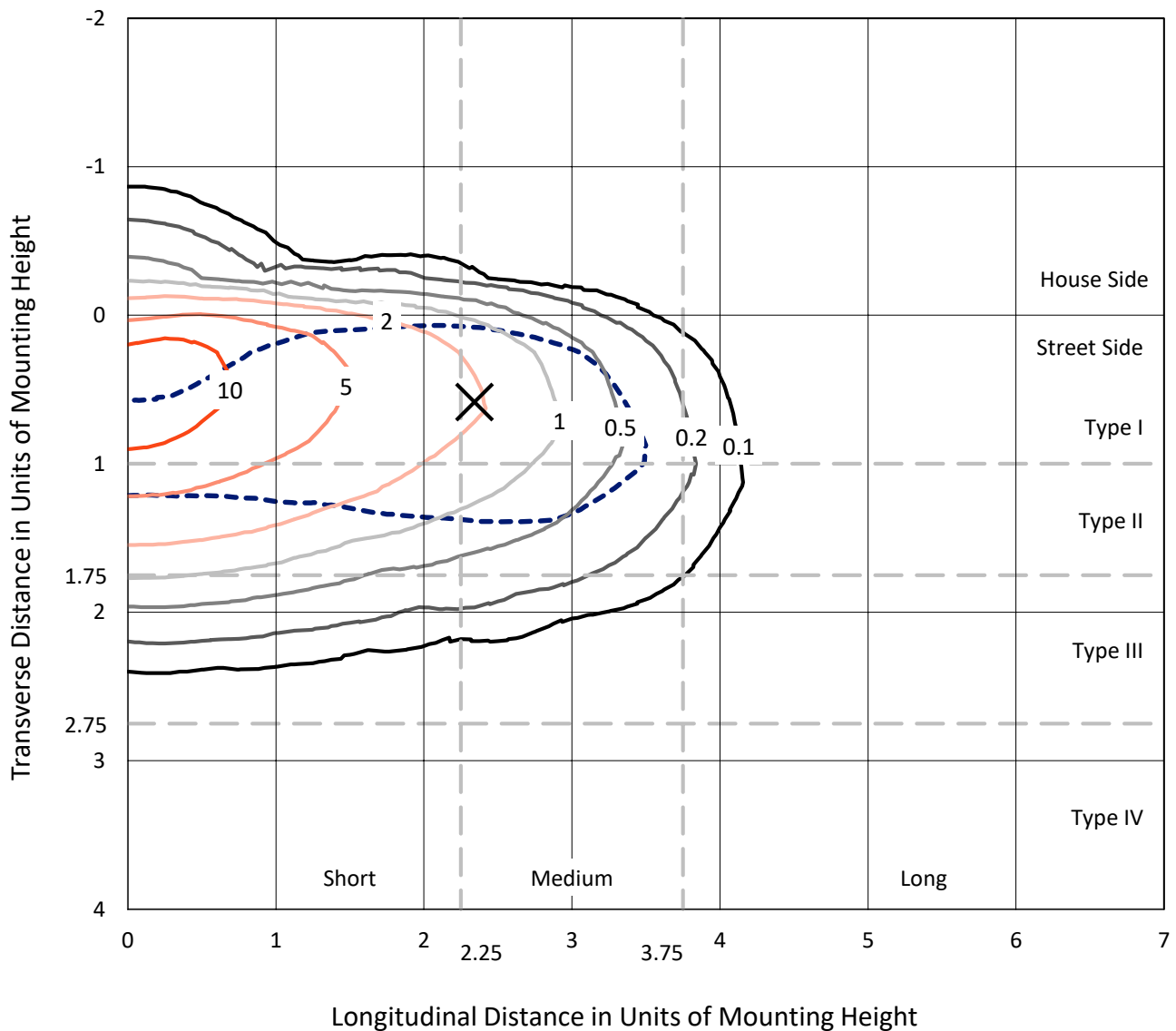
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

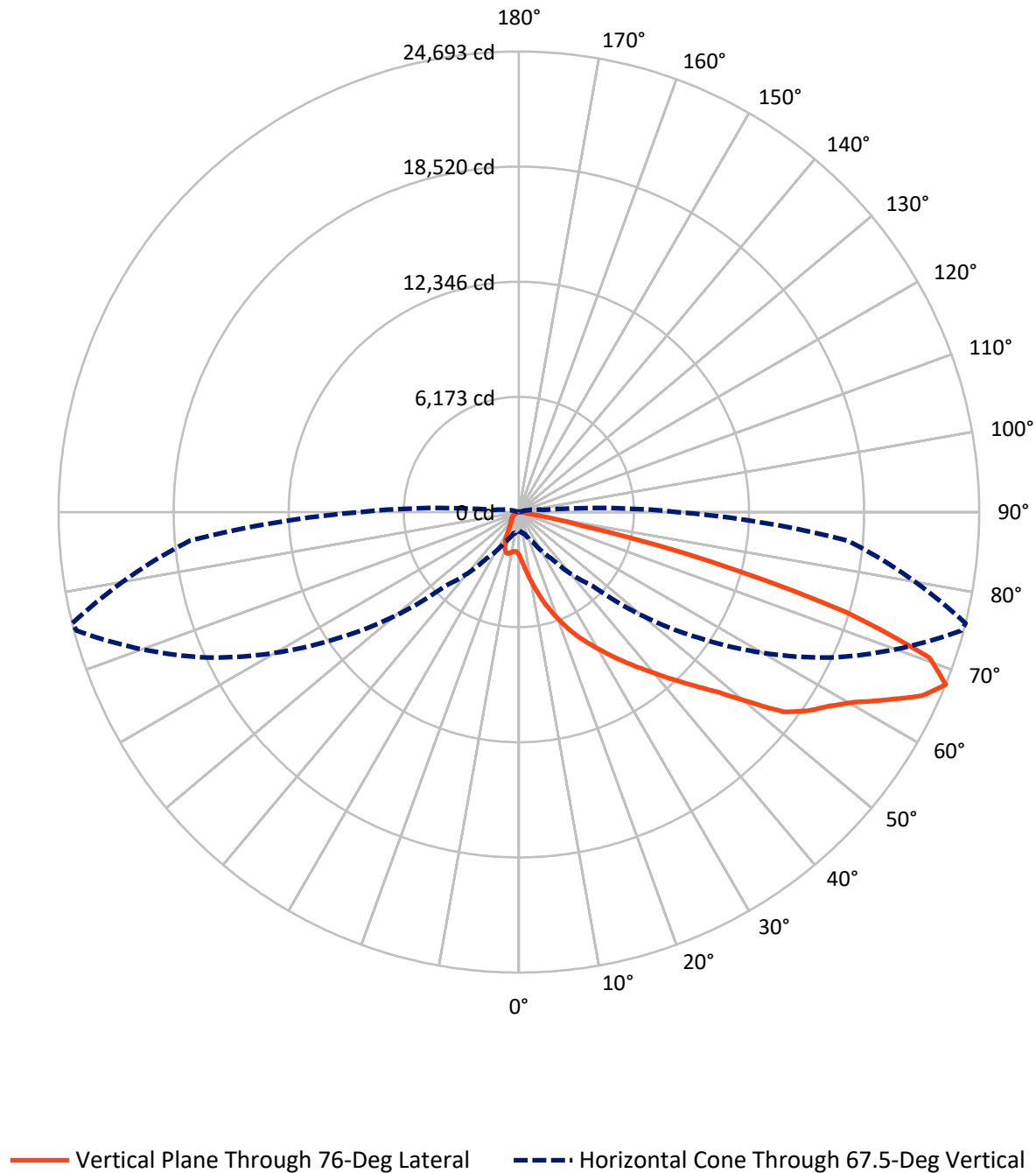
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	1349.5	0.0	1349.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25826.5	0.0	25826.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	27176.0	0.0	27176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	1.1
10°-20°	1136.4	4.2
20°-30°	2312.1	8.5
30°-40°	4013.1	14.8
40°-50°	5670.0	20.9
50°-60°	6430.1	23.7
60°-70°	5333.1	19.6
70°-80°	1931.8	7.1
80°-90°	62.7	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°	27176.0	100.0
0°-180°	27176.0	100.0

Coefficient of Utilization



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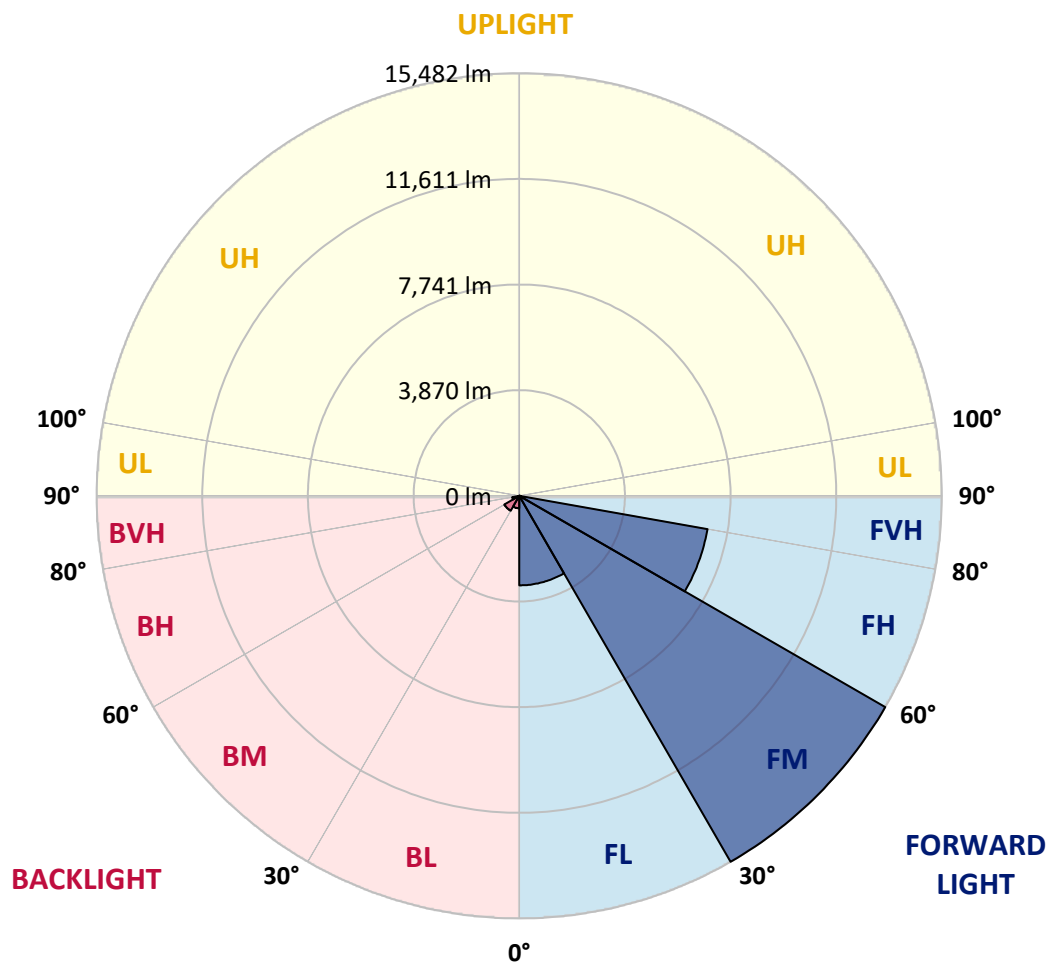
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3280.1	12.1			
FM	(30°-60°)	15481.6	57.0			
FH	(60°-80°)	7004.2	25.8			G3/7500
FVH	(80°-90°)	60.7	0.2			G1/100
BL	(0°-30°)	455.1	1.7	B1/500		
BM	(30°-60°)	631.6	2.3	B1/1000		
BH	(60°-80°)	260.8	1.0	B1/500		G1/500
BVH	(80°-90°)	2.0	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°	75°	76°	85°
0°	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3
2.5°	3441.3	3363.9	3381.8	3331.7	3241.2	3055.5	2897.1	2747.1	2572.0	2566.1	2422.0
5°	4640.4	4574.9	4566.6	4465.4	4301.0	3985.5	3678.3	3328.2	2937.6	2909.0	2603.0
7.5°	5728.7	5676.4	5657.3	5537.0	5231.0	4923.8	4523.7	4009.3	3398.4	3346.0	2847.1
10°	6564.7	6539.7	6544.4	6458.7	6196.7	5910.9	5385.8	4729.7	3921.2	3840.2	3140.0
12.5°	7198.1	7204.1	7247.0	7194.6	7048.1	6836.2	6275.3	5497.7	4499.9	4389.1	3474.6
15°	7663.7	7693.5	7772.1	7837.6	7826.9	7643.5	7129.1	6277.7	5114.3	4991.7	3847.3
17.5°	7965.0	7998.3	8112.6	8257.9	8391.3	8348.4	7953.1	7030.2	5735.9	5594.2	4246.3
20°	8229.3	8268.6	8391.3	8583.0	8831.9	8885.5	8625.9	7760.2	6356.3	6183.6	4658.3
22.5°	8802.1	8800.9	8875.9	8987.9	9224.8	9362.9	9198.6	8437.7	6969.5	6789.7	5078.6
25°	9838.1	9798.8	9772.6	9684.5	9736.8	9822.6	9730.9	9071.2	7586.3	7404.1	5504.9
27.5°	11069.3	11093.1	10881.2	10644.2	10460.8	10372.7	10222.7	9658.3	8179.3	7979.3	5921.7
30°	12368.4	12375.6	12125.5	11823.1	11419.4	11084.8	10825.2	10219.1	8789.0	8571.1	6326.5
32.5°	13540.1	13493.7	13246.0	12834.0	12324.4	11948.1	11408.7	10845.4	9434.4	9223.6	6776.6
35°	14468.9	14414.2	14112.9	13737.8	13209.1	12830.4	12181.5	11470.6	10113.1	9907.1	7227.9
37.5°	15147.7	15083.4	14773.8	14388.0	13931.9	13711.6	13078.1	12150.5	10853.8	10632.3	7703.0
40°	15383.4	15327.5	15133.4	14851.2	14484.4	14434.4	14029.5	12932.8	11659.9	11424.2	8241.3
42.5°	15242.9	15188.1	15119.1	15023.8	14871.4	14919.0	14927.4	13824.7	12555.4	12323.2	8835.4
45°	14685.6	14636.8	14708.3	14847.6	15036.9	15272.7	15746.6	14783.3	13555.6	13307.9	9522.5
47.5°	13865.2	13829.5	14027.2	14374.9	14928.6	15578.7	16495.6	15790.7	14678.5	14448.7	10379.9
50°	12698.3	12692.3	13087.6	13722.3	14573.7	15726.4	17269.6	16936.2	16238.4	15996.7	11571.8
52.5°	10881.2	10893.1	11670.6	12686.4	13950.9	15626.3	17767.3	18408.0	18053.1	17801.9	12604.2
55°	9151.0	9222.4	9773.8	11238.4	12996.0	15254.8	17938.8	19095.0	19054.5	18816.4	13178.1
57.5°	7456.5	7586.3	8117.4	9485.6	11601.6	14398.7	17844.7	19392.7	19800.0	19617.8	13935.5
60°	5620.4	5679.9	6292.0	7570.9	9811.9	12836.4	17162.4	19554.7	20819.3	20693.0	15034.5
62.5°	3575.9	3724.7	4267.7	5501.3	7639.9	10666.8	16012.2	19552.3	22094.6	22163.6	16452.7
65°	1883.8	2057.6	2345.8	3409.1	5250.1	8243.6	14282.0	19368.9	23659.2	23755.7	17561.3
67.5°	1015.7	1065.7	1218.1	1769.5	3044.8	5584.7	11739.7	18463.9	24565.4	24692.8	17716.1
70°	743.0	770.4	827.6	978.8	1532.5	3243.6	8566.3	16412.2	23397.2	23349.6	15740.7
72.5°	570.4	613.2	656.1	716.8	881.2	1731.4	5333.4	12851.9	18668.7	18354.4	11765.9
75°	450.1	457.3	518.0	572.8	660.9	985.9	2368.4	7485.1	11394.4	10650.2	6101.5
77.5°	359.6	364.4	400.1	447.7	531.1	647.8	733.5	2944.8	3637.8	3246.0	1324.1
80°	213.1	225.1	297.7	345.3	440.6	408.4	267.9	639.4	568.0	514.4	222.7
82.5°	119.1	128.6	167.9	272.7	307.2	195.3	133.4	172.7	133.4	129.8	63.1
85°	0.0	6.0	108.4	169.1	125.0	42.9	56.0	57.2	39.3	36.9	25.0
87.5°	0.0	0.0	33.3	32.2	4.8	7.1	13.1	19.1	15.5	15.5	13.1
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°	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3
2.5°	2350.6	2286.3	2164.8	2045.7	1945.7	1863.5	1789.7	1759.9	1736.1	1732.6	1713.5
5°	2455.3	2325.6	2093.4	1902.8	1775.4	1684.9	1607.5	1559.9	1523.0	1508.7	1495.6
7.5°	2613.7	2417.2	2083.8	1864.7	1712.3	1559.9	1417.0	1262.2	1165.8	1128.8	1107.4
10°	2806.6	2538.7	2119.6	1854.0	1587.3	1265.8	1028.8	832.3	752.6	726.4	719.2
12.5°	3031.7	2689.9	2181.5	1787.3	1320.6	899.0	709.7	643.0	625.1	616.8	616.8
15°	3290.1	2855.4	2225.5	1594.4	976.4	679.9	614.4	583.5	564.4	553.7	554.9
17.5°	3554.4	3017.4	2204.1	1314.6	720.4	604.9	556.1	522.7	496.5	485.8	483.4
20°	3821.1	3167.4	2085.0	978.8	609.7	548.9	494.2	457.3	431.1	420.3	418.0
22.5°	4097.4	3294.8	1875.4	718.0	547.7	487.0	433.4	396.5	371.5	362.0	357.2
25°	4366.5	3398.4	1582.5	581.1	489.4	428.7	377.5	342.9	320.3	310.8	309.6
27.5°	4617.8	3463.9	1243.2	513.2	438.2	376.3	329.8	298.9	279.8	272.7	271.5
30°	4844.0	3469.9	919.3	463.2	393.0	331.0	288.2	260.8	244.1	237.0	234.6
32.5°	5072.6	3419.9	669.2	418.0	351.3	291.7	250.1	228.6	216.7	210.8	210.8
35°	5288.2	3304.4	521.6	378.7	310.8	253.6	220.3	204.8	197.7	191.7	191.7
37.5°	5498.9	3138.8	443.0	344.1	272.7	221.5	194.1	184.6	178.6	172.7	172.7
40°	5713.3	2930.5	402.5	312.0	241.7	196.5	172.7	164.3	158.4	153.6	152.4
42.5°	5976.4	2689.9	376.3	282.2	214.3	173.9	152.4	142.9	138.1	133.4	131.0
45°	6281.3	2482.7	354.8	252.4	191.7	154.8	132.2	122.6	115.5	109.5	108.4
47.5°	6720.7	2332.7	326.3	220.3	170.3	134.6	114.3	103.6	92.9	86.9	85.7
50°	7281.5	2208.9	289.4	191.7	148.8	114.3	95.3	82.2	72.6	66.7	66.7
52.5°	7560.1	2046.9	256.0	166.7	125.0	96.5	77.4	61.9	57.2	51.2	51.2
55°	7672.1	1923.1	222.7	141.7	103.6	79.8	60.7	47.6	44.1	40.5	39.3
57.5°	7986.4	1887.4	194.1	120.3	85.7	63.1	46.4	35.7	33.3	28.6	28.6
60°	8492.5	1905.2	167.9	102.4	69.1	48.8	34.5	27.4	25.0	20.2	20.2
62.5°	9039.1	1882.6	141.7	88.1	53.6	35.7	23.8	20.2	20.2	11.9	10.7
65°	9143.8	1676.6	121.5	72.6	41.7	26.2	15.5	13.1	17.9	2.4	0.0
67.5°	8486.5	1300.3	104.8	56.0	31.0	20.2	11.9	6.0	15.5	0.0	0.0
70°	6786.1	826.4	84.5	40.5	23.8	16.7	9.5	2.4	11.9	0.0	0.0
72.5°	4798.8	479.9	66.7	28.6	20.2	13.1	7.1	0.0	7.1	0.0	0.0
75°	2426.8	256.0	41.7	21.4	15.5	9.5	4.8	0.0	1.2	0.0	0.0
77.5°	525.1	119.1	26.2	15.5	10.7	6.0	2.4	0.0	0.0	0.0	0.0
80°	114.3	52.4	16.7	9.5	6.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	41.7	27.4	8.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	14.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	4.8	1.2	1.2	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)