

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: P323352

Luminaire Tested: **GAN-SA8A-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24583 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

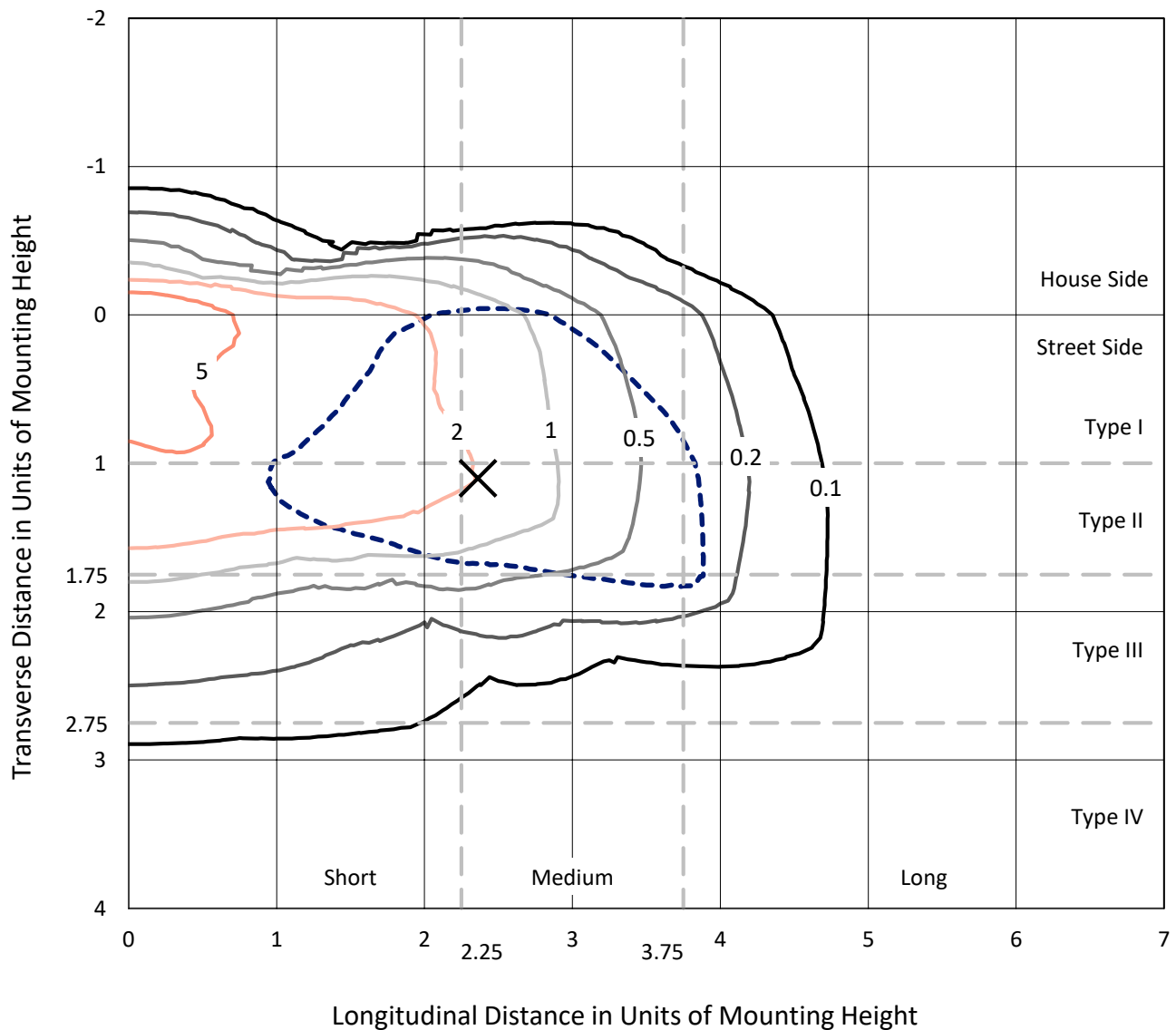
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

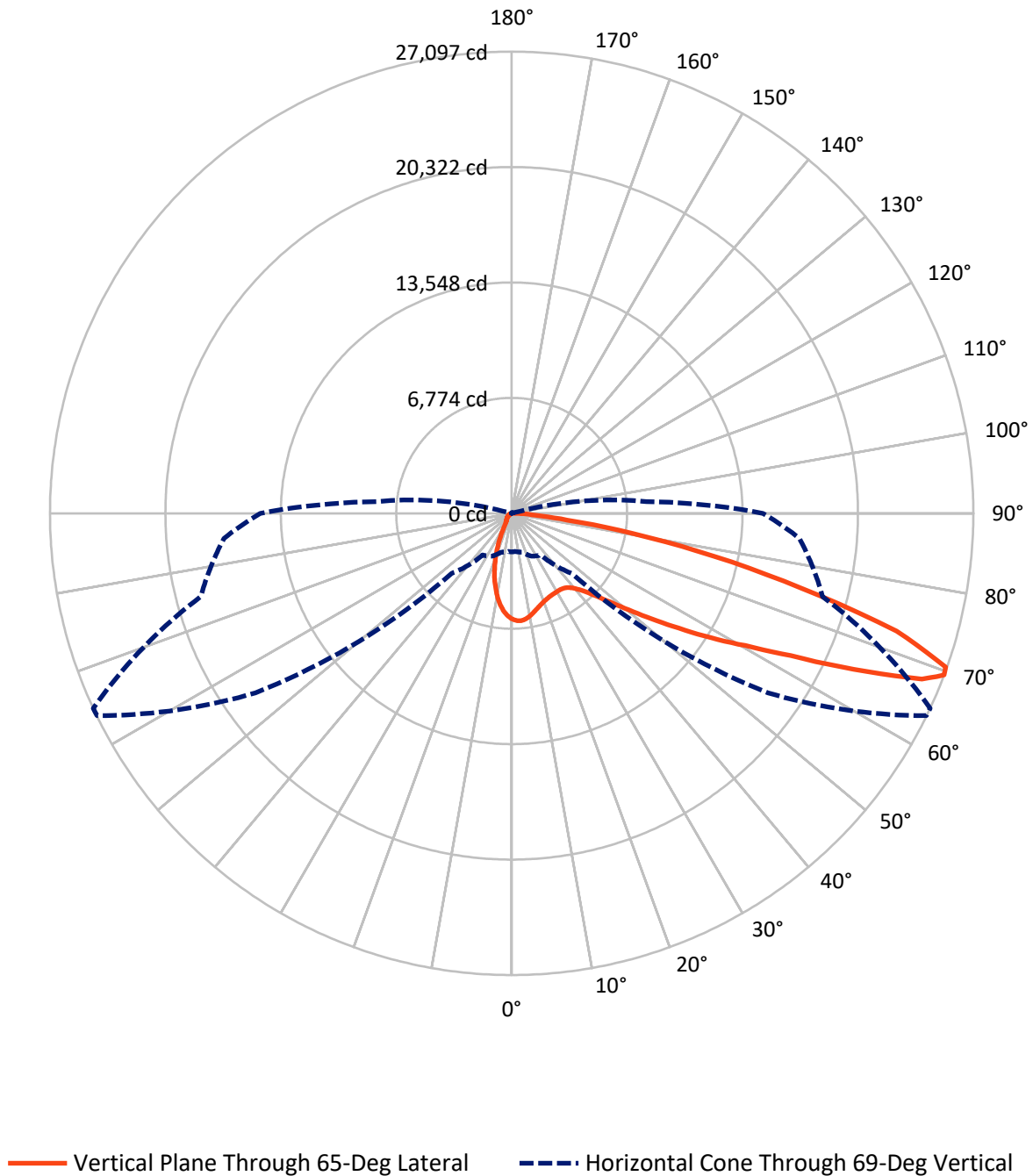
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	2897.7	0.0	2897.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21685.3	0.0	21685.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	24583.0	0.0	24583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.5	2.1
10°-20°	1137.1	4.6
20°-30°	1575.0	6.4
30°-40°	2196.0	8.9
40°-50°	3413.3	13.9
50°-60°	5479.7	22.3
60°-70°	6198.5	25.2
70°-80°	3640.4	14.8
80°-90°	423.5	1.7
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°	24583.0	100.0
0°-180°	24583.0	100.0

Coefficient of Utilization



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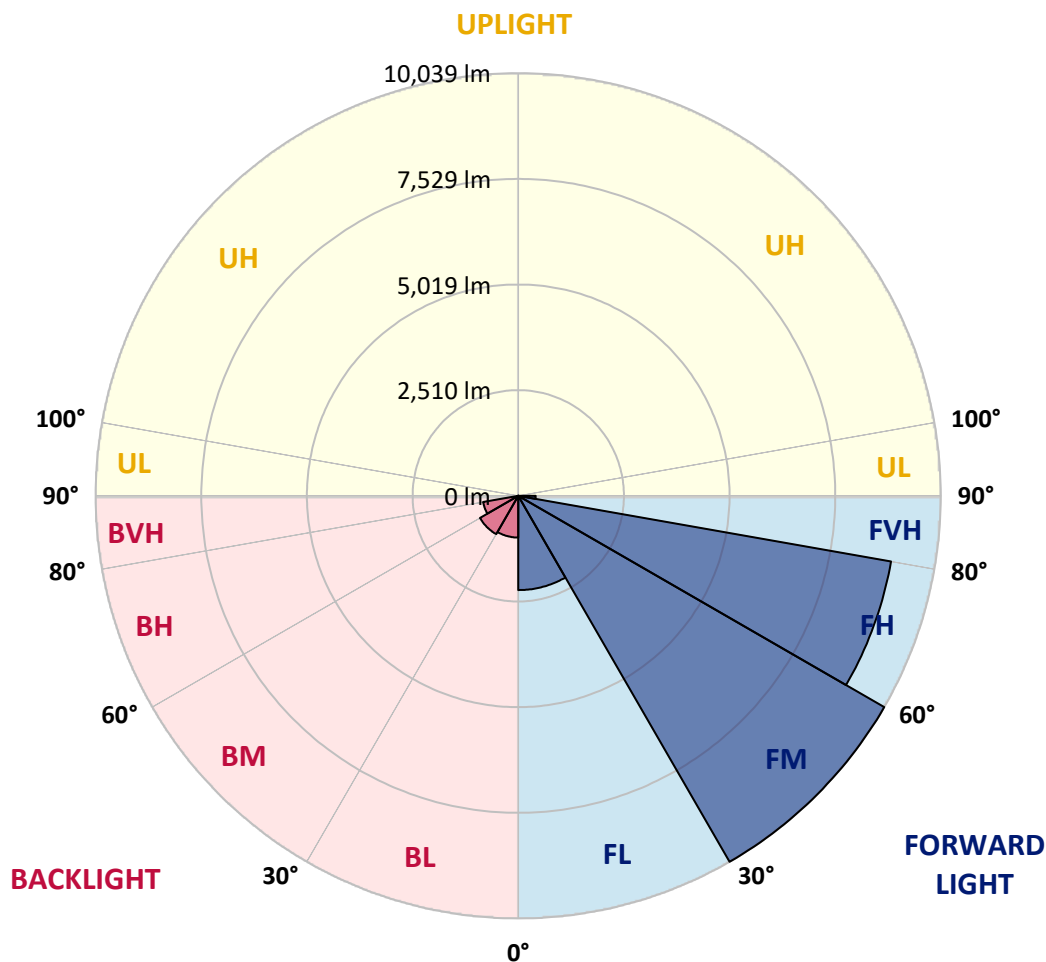
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2240.1	9.1			
FM	(30°-60°)	10039.0	40.8			
FH	(60°-80°)	8992.2	36.6			G4/12000
FVH	(80°-90°)	414.0	1.7			G3/500
BL	(0°-30°)	991.5	4.0	B2/1000		
BM	(30°-60°)	1050.1	4.3	B2/2500		
BH	(60°-80°)	846.7	3.4	B2/1000		G2/1000
BVH	(80°-90°)	9.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2
2.5°	6267.3	6251.7	6264.2	6291.2	6304.7	6304.7	6315.1	6302.7	6306.8	6276.7	6233.0
5°	5875.1	5851.2	5885.5	5961.5	6055.1	6135.2	6253.8	6316.2	6322.4	6323.5	6272.5
7.5°	5452.8	5431.0	5481.9	5571.4	5692.1	5840.8	6047.8	6228.8	6239.2	6337.0	6299.5
10°	5109.5	5093.9	5153.2	5248.9	5390.4	5556.8	5810.6	6062.4	6092.5	6308.9	6295.4
12.5°	4837.0	4824.5	4880.7	4991.0	5135.5	5319.7	5584.9	5877.2	5917.8	6245.5	6274.6
15°	4638.3	4636.2	4683.1	4789.2	4949.3	5121.0	5392.5	5705.6	5752.4	6176.8	6271.5
17.5°	4534.3	4537.4	4571.7	4662.2	4799.6	4970.1	5230.2	5561.0	5612.0	6115.4	6287.1
20°	4523.9	4527.0	4545.7	4596.7	4708.0	4858.8	5098.1	5439.3	5492.3	6069.7	6312.0
22.5°	4615.4	4613.4	4618.6	4613.4	4675.8	4790.2	5010.7	5345.7	5407.0	6039.5	6331.8
25°	4791.2	4788.1	4786.0	4747.5	4705.9	4767.3	4974.3	5292.6	5350.9	6017.6	6343.2
27.5°	5035.7	5033.6	5030.5	4967.0	4842.2	4803.7	4978.5	5272.9	5321.7	6000.0	6341.2
30°	5357.1	5371.7	5367.5	5279.1	5084.6	4915.0	5022.2	5262.5	5305.1	5965.6	6319.3
32.5°	5734.7	5763.8	5786.7	5692.1	5448.6	5135.5	5123.1	5273.9	5305.1	5939.6	6279.8
35°	6126.9	6164.3	6248.6	6215.3	5894.9	5467.4	5296.8	5342.5	5368.6	5954.2	6261.1
37.5°	6512.8	6557.5	6740.6	6837.3	6479.5	5906.3	5567.2	5512.1	5525.6	6042.6	6281.9
40°	6961.1	7028.7	7306.5	7462.5	7177.5	6494.1	5971.9	5803.4	5808.6	6237.1	6378.6
42.5°	7549.9	7619.6	7920.2	8164.7	7963.9	7236.8	6521.1	6248.6	6243.4	6601.2	6606.4
45°	8267.6	8340.4	8651.5	8923.0	8832.5	8116.8	7224.3	6898.7	6892.5	7175.4	7038.1
47.5°	9081.1	9152.9	9430.6	9710.4	9808.2	9144.5	8119.9	7786.0	7771.5	7973.3	7704.9
50°	9779.1	9825.9	10081.8	10458.3	10899.4	10407.4	9234.0	8912.6	8897.0	9033.2	8683.7
52.5°	10032.9	10059.9	10320.0	10847.4	11947.9	12117.5	10697.6	10283.6	10272.1	10331.4	9987.1
55°	9519.0	9567.9	9887.2	10669.5	12515.9	14050.2	12545.0	11981.2	11894.9	11766.9	11349.8
57.5°	8118.9	8196.9	8540.2	9580.4	12250.6	15583.5	15260.0	13901.4	13774.5	12992.3	12457.6
60°	6083.2	6178.9	6463.9	7586.3	10834.9	16129.6	18226.7	16041.2	15755.1	13968.0	13476.0
62.5°	4174.4	4222.2	4415.7	5147.0	7979.5	15235.0	20708.6	18907.0	18384.8	15029.0	14577.6
65°	3188.3	3204.9	3284.0	3535.7	4751.7	12375.4	21695.8	22688.1	22056.7	16298.1	15720.8
67.5°	2569.3	2555.8	2665.0	3024.9	3182.0	7549.9	20544.3	26265.4	25970.0	17994.7	16871.3
69°	2265.6	2246.9	2358.2	2776.3	2988.5	4991.0	18366.0	27077.9	27096.6	18890.3	16950.3
70°	2038.8	2051.3	2161.6	2628.6	2923.0	3917.5	16285.6	26870.8	27018.6	19225.3	16476.0
72.5°	1361.6	1394.9	1616.5	2182.4	2810.7	2964.6	9833.2	23058.5	23626.4	18471.1	14135.5
75°	767.7	792.6	1055.8	1645.6	2648.4	2823.1	5193.8	16987.8	17537.0	15446.2	10900.4
77.5°	376.6	390.1	597.1	1062.1	2214.6	2690.0	2945.9	11539.1	12166.4	10081.8	6165.4
80°	159.2	166.4	298.5	655.3	1583.2	2567.3	2187.6	7101.6	7179.6	3949.7	1642.5
82.5°	61.4	63.5	125.9	408.8	1005.9	2001.4	1829.7	3367.2	3286.0	743.8	374.5
85°	7.3	8.3	45.8	245.5	559.6	1029.8	1486.5	1451.1	1342.9	147.7	192.4
87.5°	0.0	0.0	3.1	74.9	166.4	482.7	772.9	602.3	543.0	47.8	99.9
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°	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2	6212.2
2.5°	6196.6	6186.2	6130.0	6048.9	5971.9	5876.2	5784.6	5729.5	5685.8	5656.7	5691.0
5°	6213.2	6167.4	5996.8	5778.4	5564.1	5322.8	5098.1	4907.7	4832.8	4749.6	4787.1
7.5°	6208.0	6121.7	5814.8	5425.8	5032.6	4625.8	4241.0	3944.5	3790.5	3639.7	3678.2
10°	6182.0	6036.4	5571.4	4995.1	4406.4	3821.8	3275.6	2860.6	2628.6	2418.5	2448.7
12.5°	6124.8	5921.9	5284.3	4502.1	3714.6	2943.8	2304.1	1772.5	1487.5	1361.6	1377.2
15°	6090.5	5810.6	4980.6	4002.7	2976.1	2050.3	1408.5	1047.5	917.5	875.9	881.1
17.5°	6073.8	5703.5	4666.4	3431.7	2220.9	1305.5	910.2	803.0	775.0	767.7	769.8
20°	6057.2	5595.3	4342.9	2866.8	1530.2	877.9	747.9	716.7	706.3	696.9	699.0
22.5°	6029.1	5491.3	3995.5	2294.7	1031.9	712.5	674.1	643.9	622.0	610.6	612.7
25°	5994.8	5382.1	3640.8	1709.1	753.1	635.6	599.2	556.5	530.5	509.7	510.7
27.5°	5939.6	5247.9	3274.6	1244.1	632.5	569.0	520.1	473.3	429.6	405.7	405.7
30°	5862.7	5096.0	2867.9	890.4	566.9	503.5	444.2	385.9	339.1	317.3	315.2
32.5°	5777.4	4937.9	2457.0	675.1	514.9	442.1	374.5	313.1	271.5	253.8	252.8
35°	5704.5	4767.3	2047.1	565.9	462.9	382.8	308.9	256.9	223.6	209.1	208.0
37.5°	5657.7	4596.7	1647.7	505.5	416.1	327.7	259.0	212.2	188.3	176.8	175.8
40°	5650.5	4469.8	1282.6	459.8	372.4	278.8	216.4	180.0	158.1	145.6	144.6
42.5°	5745.1	4397.0	984.0	421.3	327.7	236.1	184.1	154.0	131.1	118.6	117.5
45°	5993.7	4419.9	757.3	387.0	282.9	199.7	156.0	127.9	107.1	97.8	95.7
47.5°	6447.3	4578.0	602.3	352.6	240.3	169.6	133.1	106.1	88.4	79.1	78.0
50°	7254.5	4949.3	503.5	315.2	200.8	144.6	110.3	86.3	71.8	63.5	62.4
52.5°	8325.9	5610.9	449.4	278.8	166.4	122.7	90.5	68.7	56.2	49.9	48.9
55°	9507.6	6411.9	414.0	239.2	136.3	101.9	71.8	54.1	43.7	38.5	36.4
57.5°	10661.2	7105.7	380.7	200.8	113.4	83.2	57.2	42.6	34.3	29.1	28.1
60°	11721.1	7743.4	342.2	161.2	92.6	65.5	44.7	33.3	27.0	21.8	21.8
62.5°	12856.0	8236.4	289.2	125.9	75.9	49.9	36.4	30.2	21.8	18.7	17.7
65°	14058.5	8602.6	226.8	97.8	59.3	37.4	30.2	31.2	17.7	13.5	12.5
67.5°	14946.9	8529.8	167.5	77.0	45.8	29.1	29.1	33.3	15.6	10.4	9.4
69°	14751.3	7937.9	140.4	66.6	39.5	25.0	27.0	33.3	14.6	9.4	8.3
70°	14184.4	7282.5	123.8	59.3	35.4	22.9	26.0	32.2	13.5	9.4	8.3
72.5°	11812.7	5485.1	96.7	44.7	28.1	18.7	21.8	28.1	13.5	9.4	7.3
75°	8885.5	3510.7	73.9	32.2	20.8	14.6	16.6	20.8	13.5	8.3	7.3
77.5°	4834.9	1265.9	53.1	21.8	14.6	11.4	11.4	15.6	12.5	6.2	4.2
80°	1243.1	318.3	33.3	14.6	11.4	8.3	7.3	10.4	7.3	1.0	0.0
82.5°	306.9	71.8	17.7	10.4	8.3	3.1	3.1	5.2	3.1	0.0	0.0
85°	168.5	35.4	11.4	7.3	4.2	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	86.3	10.4	3.1	2.1	1.0	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)