

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: P323373

Luminaire Tested: **GAN-SA9C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323373
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-SA9C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 41620 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

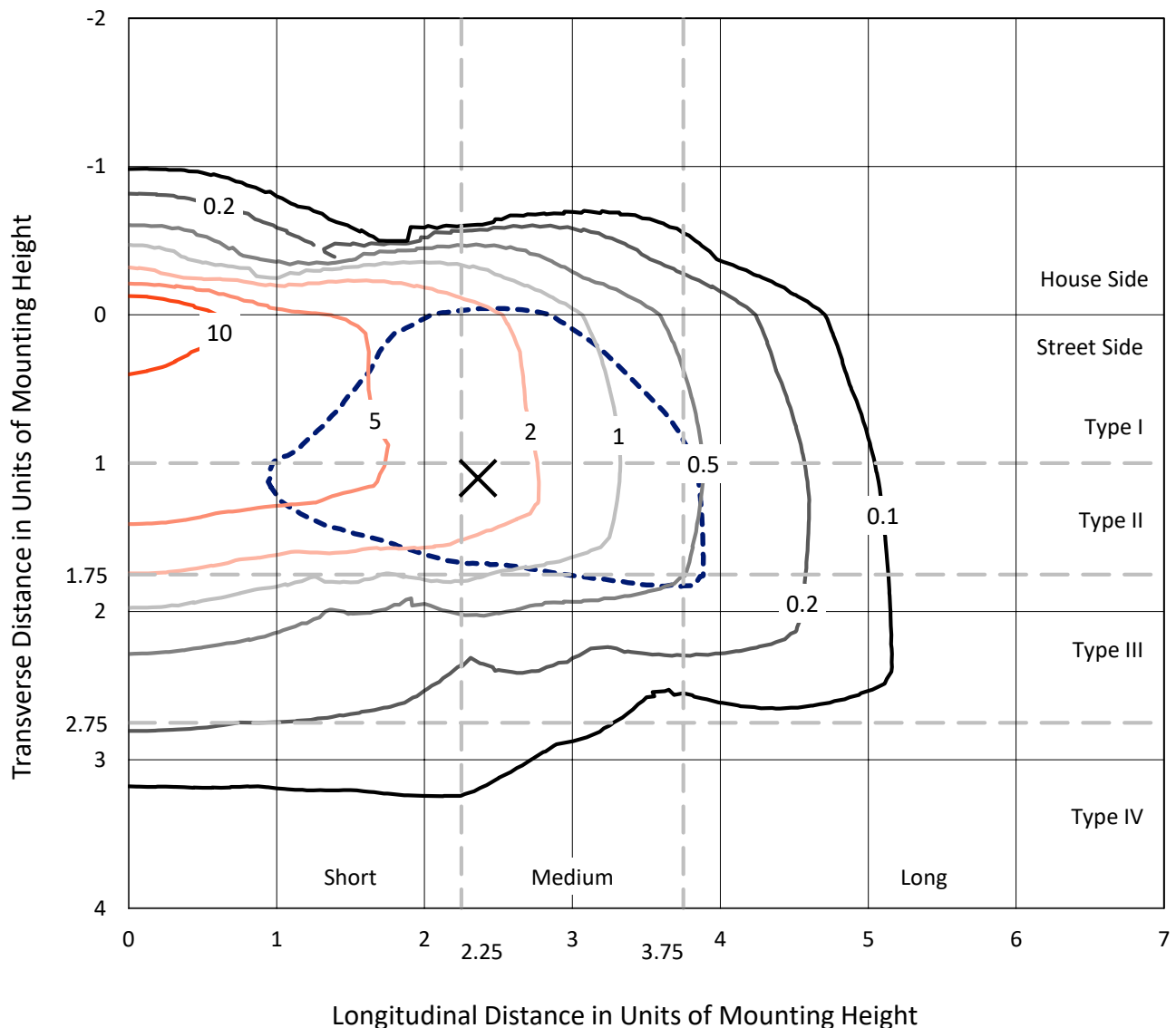
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

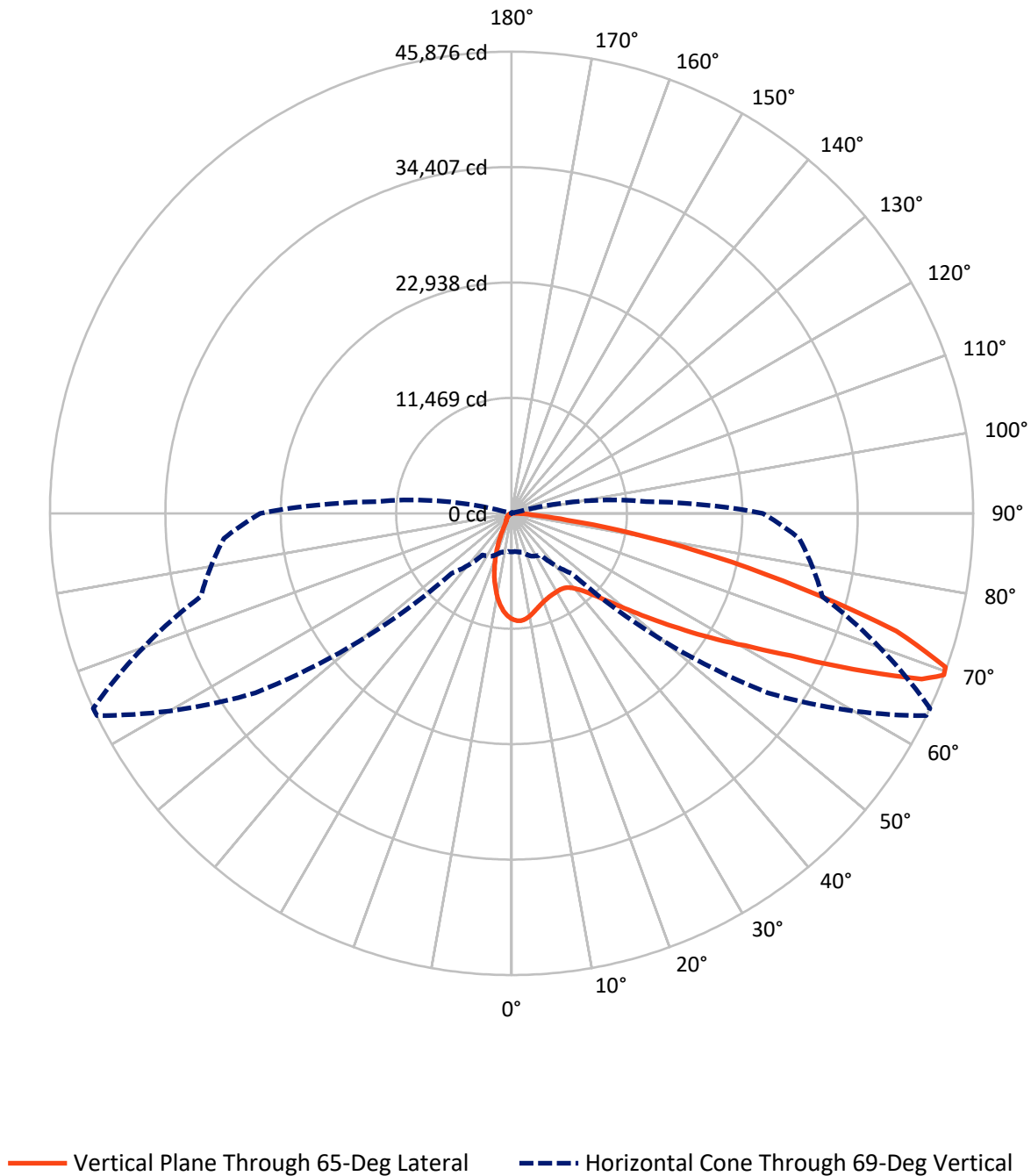
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	4906.0	0.0	4906.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	36714.0	0.0	36714.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	41620.0	0.0	41620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.5	2.1
10°-20°	1925.2	4.6
20°-30°	2666.5	6.4
30°-40°	3717.9	8.9
40°-50°	5778.9	13.9
50°-60°	9277.4	22.3
60°-70°	10494.3	25.2
70°-80°	6163.4	14.8
80°-90°	717.0	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°	41620.0	100.0
0°-180°	41620.0	100.0

Coefficient of Utilization



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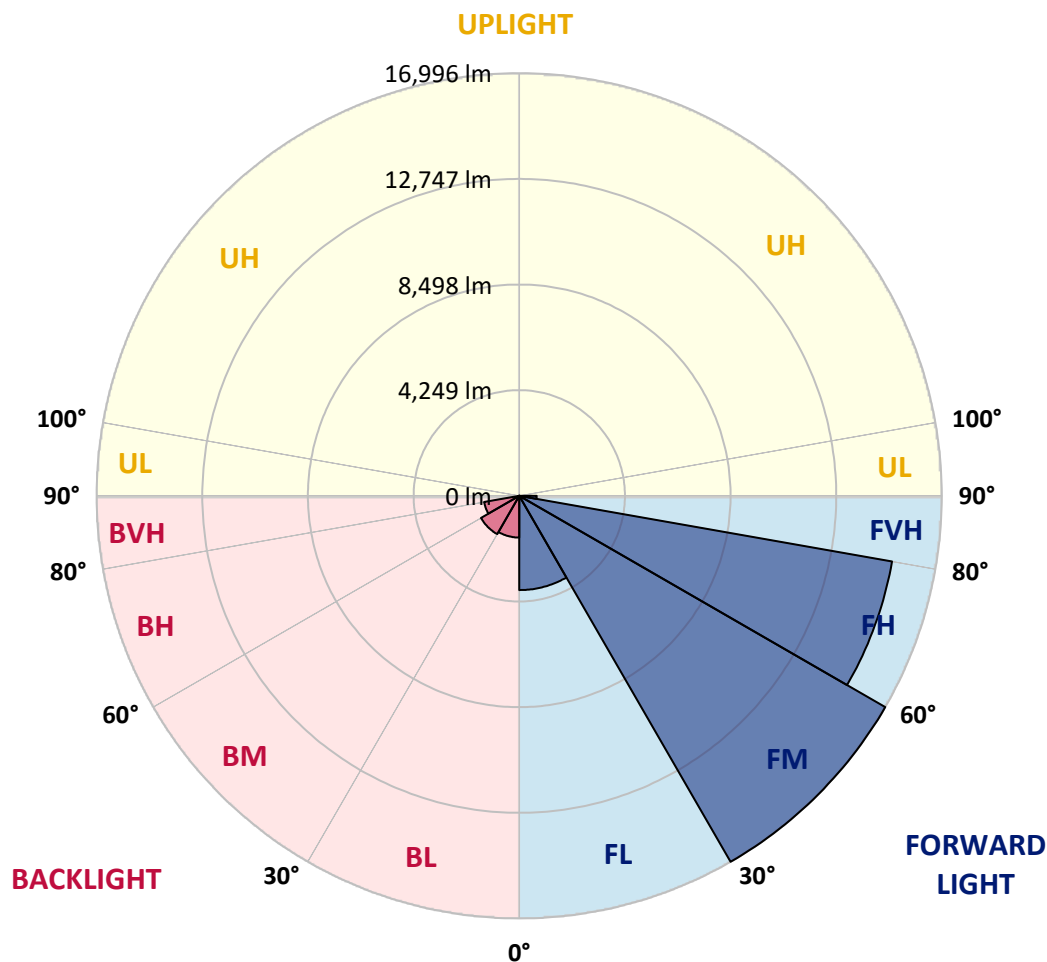
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3792.6	9.1			
FM	(30°-60°)	16996.4	40.8			
FH	(60°-80°)	15224.2	36.6			G5
FVH	(80°-90°)	700.8	1.7			G4/750
BL	(0°-30°)	1678.6	4.0	B3/2500		
BM	(30°-60°)	1777.8	4.3	B2/2500		
BH	(60°-80°)	1433.4	3.4	B3/2500		G3/2500
BVH	(80°-90°)	16.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4
2.5°	10610.8	10584.4	10605.5	10651.3	10674.2	10674.2	10691.8	10670.7	10677.7	10626.6	10552.7
5°	9946.8	9906.3	9964.5	10093.0	10251.5	10387.1	10587.9	10693.6	10704.1	10705.9	10619.6
7.5°	9231.8	9194.8	9281.1	9432.6	9636.9	9888.7	10239.2	10545.6	10563.2	10728.8	10665.4
10°	8650.7	8624.2	8724.6	8886.6	9126.2	9407.9	9837.7	10263.8	10314.9	10681.2	10658.3
12.5°	8189.2	8168.1	8263.2	8449.9	8694.7	9006.4	9455.5	9950.4	10019.0	10573.8	10623.1
15°	7852.9	7849.3	7928.6	8108.2	8379.4	8670.0	9129.7	9659.8	9739.0	10457.6	10617.8
17.5°	7676.8	7682.0	7740.2	7893.4	8125.8	8414.7	8854.9	9415.0	9501.3	10353.7	10644.2
20°	7659.1	7664.4	7696.1	7782.4	7970.9	8226.2	8631.3	9208.9	9298.7	10276.2	10686.5
22.5°	7814.1	7810.6	7819.4	7810.6	7916.3	8110.0	8483.3	9050.4	9154.3	10225.1	10720.0
25°	8111.7	8106.5	8102.9	8037.8	7967.3	8071.2	8421.7	8960.6	9059.2	10188.1	10739.3
27.5°	8525.6	8522.1	8516.8	8409.4	8198.0	8132.9	8428.8	8927.1	9009.9	10158.2	10735.8
30°	9069.8	9094.5	9087.4	8937.7	8608.4	8321.3	8502.7	8909.5	8981.7	10100.1	10698.8
32.5°	9709.1	9758.4	9797.1	9636.9	9224.8	8694.7	8673.5	8928.9	8981.7	10056.0	10631.9
35°	10373.0	10436.4	10579.1	10522.7	9980.3	9256.5	8967.7	9045.1	9089.2	10080.7	10600.2
37.5°	11026.4	11102.1	11412.1	11575.9	10970.1	9999.7	9425.5	9332.2	9355.1	10230.4	10635.4
40°	11785.5	11899.9	12370.2	12634.3	12151.8	10994.7	10110.6	9825.3	9834.1	10559.7	10799.2
42.5°	12782.3	12900.3	13409.2	13823.1	13483.2	12252.2	11040.5	10579.1	10570.3	11176.1	11184.9
45°	13997.4	14120.7	14647.3	15106.9	14953.7	13742.1	12231.0	11679.8	11669.2	12148.2	11915.8
47.5°	15374.6	15496.2	15966.4	16440.1	16605.7	15482.1	13747.4	13182.0	13157.4	13499.0	13044.7
50°	16556.3	16635.6	17068.8	17706.4	18453.1	17620.1	15633.5	15089.3	15062.9	15293.6	14701.9
52.5°	16986.1	17031.9	17472.1	18365.0	20228.3	20515.4	18111.4	17410.5	17391.1	17491.5	16908.6
55°	16116.1	16198.8	16739.5	18063.9	21189.9	23787.5	21239.2	20284.7	20138.5	19921.9	19215.7
57.5°	13745.6	13877.7	14458.8	16220.0	20740.8	26383.4	25835.7	23535.7	23320.8	21996.5	21091.2
60°	10299.1	10461.1	10943.6	12843.9	18343.9	27308.0	30858.5	27158.3	26674.0	23648.4	22815.4
62.5°	7067.4	7148.4	7476.0	8714.1	13509.6	25793.5	35060.5	32010.2	31126.1	25444.8	24680.4
65°	5397.9	5426.0	5559.9	5986.1	8044.8	20952.1	36731.8	38411.9	37342.9	27593.3	26615.9
67.5°	4350.0	4327.1	4512.0	5121.4	5387.3	12782.3	34782.2	44468.4	43968.3	30465.7	28563.7
69°	3835.7	3804.0	3992.5	4700.4	5059.7	8449.9	31094.4	45843.9	45875.6	31982.1	28697.6
70°	3451.8	3472.9	3659.6	4450.4	4948.8	6632.4	27572.2	45493.4	45743.5	32549.1	27894.5
72.5°	2305.3	2361.7	2736.8	3694.8	4758.6	5019.2	16647.9	39038.9	40000.5	31272.3	23931.9
75°	1299.7	1342.0	1787.5	2786.1	4483.8	4779.7	8793.3	28761.0	29690.8	26151.0	18454.8
77.5°	637.5	660.4	1010.9	1798.1	3749.4	4554.3	4987.5	19536.2	20598.1	17068.8	10438.2
80°	269.5	281.8	505.4	1109.5	2680.4	4346.5	3703.6	12023.2	12155.3	6687.0	2780.8
82.5°	103.9	107.4	213.1	692.1	1703.0	3388.4	3097.8	5700.8	5563.4	1259.2	634.0
85°	12.3	14.1	77.5	415.6	947.5	1743.5	2516.6	2456.8	2273.6	250.1	325.8
87.5°	0.0	0.0	5.3	126.8	281.8	817.2	1308.5	1019.7	919.3	81.0	169.1
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°	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4
2.5°	10491.0	10473.4	10378.3	10241.0	10110.6	9948.6	9793.6	9700.3	9626.3	9577.0	9635.1
5°	10519.2	10441.7	10152.9	9783.1	9420.3	9011.7	8631.3	8309.0	8182.2	8041.3	8104.7
7.5°	10510.4	10364.2	9844.7	9186.0	8520.3	7831.7	7180.1	6678.2	6417.5	6162.2	6227.3
10°	10466.4	10219.8	9432.6	8456.9	7460.1	6470.4	5545.8	4843.1	4450.4	4094.6	4145.7
12.5°	10369.5	10026.1	8946.5	7622.2	6289.0	4984.0	3900.9	3001.0	2518.4	2305.3	2331.7
15°	10311.4	9837.7	8432.3	6776.8	5038.6	3471.2	2384.6	1773.5	1553.3	1482.9	1491.7
17.5°	10283.2	9656.3	7900.4	5810.0	3760.0	2210.2	1541.0	1359.6	1312.0	1299.7	1303.2
20°	10255.0	9473.1	7352.7	4853.7	2590.6	1486.4	1266.2	1213.4	1195.8	1180.0	1183.5
22.5°	10207.5	9297.0	6764.5	3885.0	1747.0	1206.4	1141.2	1090.1	1053.2	1033.8	1037.3
25°	10149.4	9112.1	6163.9	2893.5	1275.1	1076.0	1014.4	942.2	898.2	863.0	864.7
27.5°	10056.0	8884.9	5544.0	2106.3	1070.8	963.3	880.6	801.3	727.3	686.8	686.8
30°	9925.7	8627.8	4855.4	1507.5	959.8	852.4	752.0	653.4	574.1	537.1	533.6
32.5°	9781.3	8360.1	4159.8	1143.0	871.8	748.5	634.0	530.1	459.7	429.7	428.0
35°	9658.0	8071.2	3465.9	958.1	783.7	648.1	523.1	435.0	378.6	354.0	352.2
37.5°	9578.8	7782.4	2789.6	855.9	704.5	554.8	438.5	359.3	318.8	299.4	297.6
40°	9566.4	7567.6	2171.5	778.4	630.5	472.0	366.3	304.7	267.7	246.6	244.8
42.5°	9726.7	7444.3	1666.0	713.3	554.8	399.8	311.7	260.6	221.9	200.8	199.0
45°	10147.6	7483.0	1282.1	655.1	479.0	338.1	264.2	216.6	181.4	165.5	162.0
47.5°	10915.5	7750.7	1019.7	597.0	406.8	287.1	225.4	179.6	149.7	133.8	132.1
50°	12282.1	8379.4	852.4	533.6	339.9	244.8	186.7	146.2	121.5	107.4	105.7
52.5°	14096.1	9499.5	760.8	472.0	281.8	207.8	153.2	116.2	95.1	84.5	82.8
55°	16096.7	10855.6	700.9	405.1	230.7	172.6	121.5	91.6	74.0	65.2	61.6
57.5°	18049.8	12030.3	644.6	339.9	192.0	140.9	96.9	72.2	58.1	49.3	47.6
60°	19844.4	13109.8	579.4	273.0	156.7	111.0	75.7	56.4	45.8	37.0	37.0
62.5°	21765.8	13944.6	489.6	213.1	128.6	84.5	61.6	51.1	37.0	31.7	29.9
65°	23801.6	14564.5	383.9	165.5	100.4	63.4	51.1	52.8	29.9	22.9	21.1
67.5°	25305.6	14441.2	283.5	130.3	77.5	49.3	49.3	56.4	26.4	17.6	15.9
69°	24974.5	13439.2	237.8	112.7	66.9	42.3	45.8	56.4	24.7	15.9	14.1
70°	24014.7	12329.6	209.6	100.4	59.9	38.7	44.0	54.6	22.9	15.9	14.1
72.5°	19999.4	9286.4	163.8	75.7	47.6	31.7	37.0	47.6	22.9	15.9	12.3
75°	15043.5	5943.8	125.0	54.6	35.2	24.7	28.2	35.2	22.9	14.1	12.3
77.5°	8185.7	2143.3	89.8	37.0	24.7	19.4	19.4	26.4	21.1	10.6	7.0
80°	2104.5	538.9	56.4	24.7	19.4	14.1	12.3	17.6	12.3	1.8	0.0
82.5°	519.5	121.5	29.9	17.6	14.1	5.3	5.3	8.8	5.3	0.0	0.0
85°	285.3	59.9	19.4	12.3	7.0	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	146.2	17.6	5.3	3.5	1.8	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)