

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: P323122

Luminaire Tested: **GAN-SA8B-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323122
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-SA8B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 31724 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

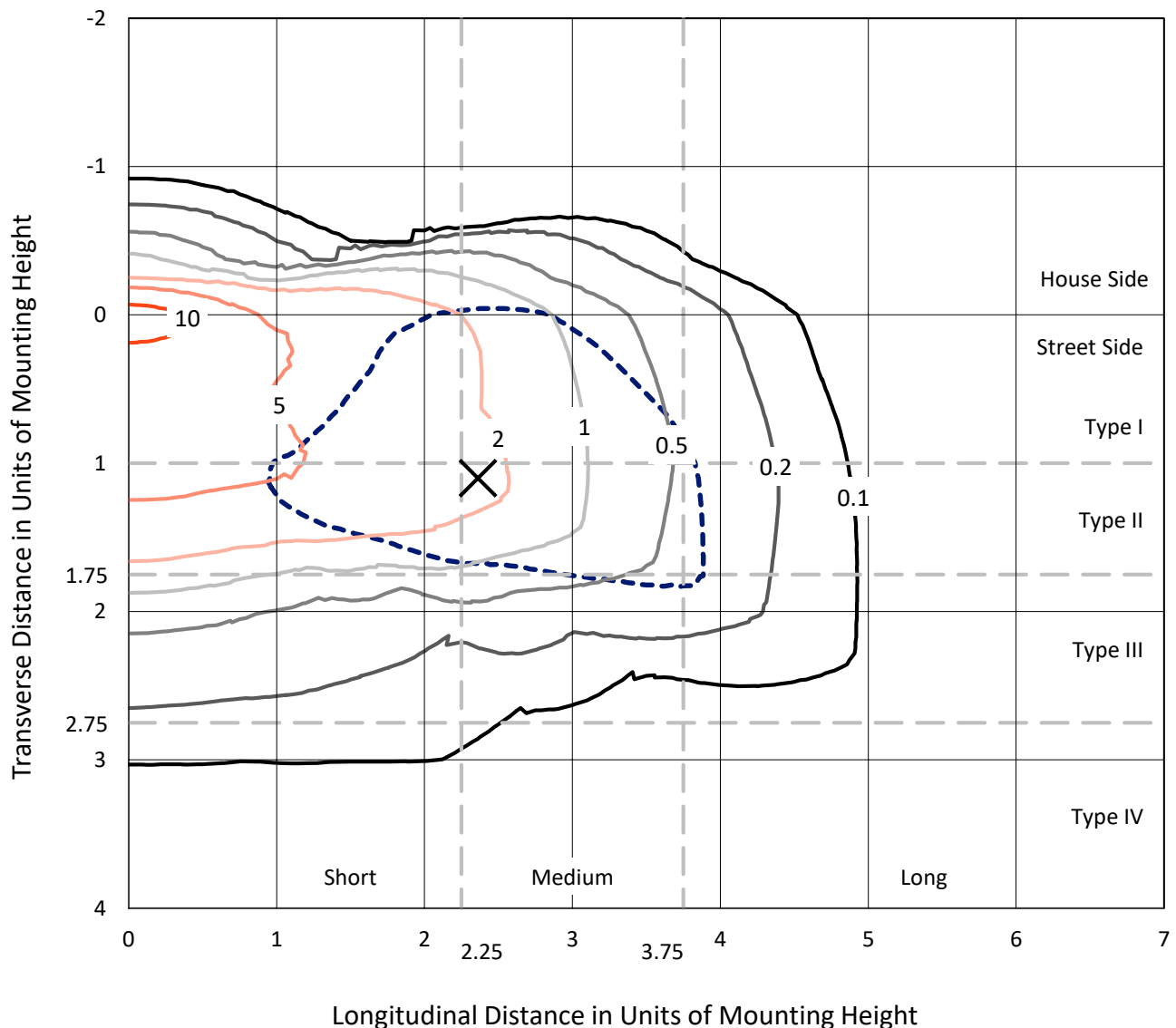
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

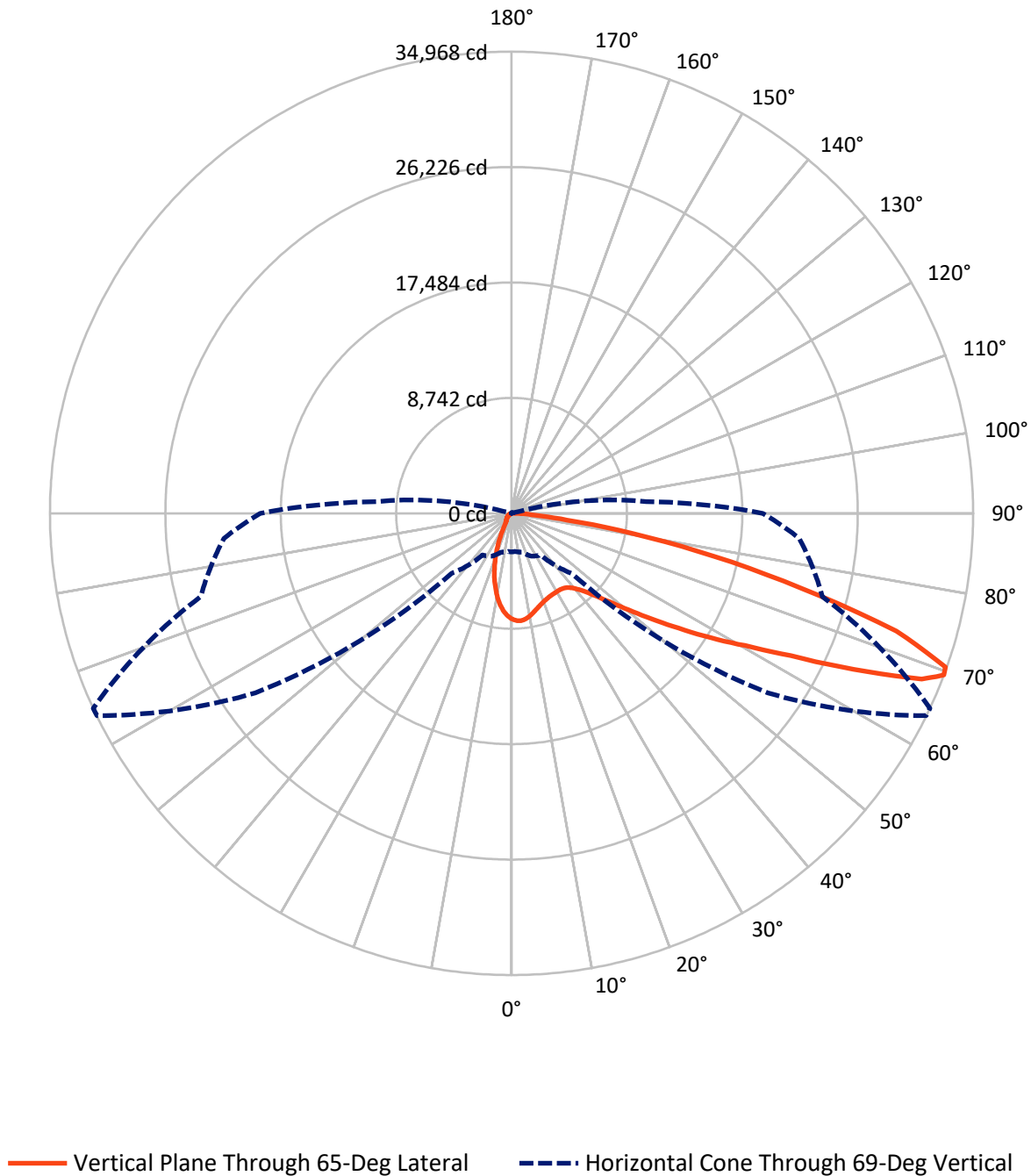
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	3739.5	0.0	3739.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	27984.5	0.0	27984.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	31724.0	0.0	31724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.4	2.1
10°-20°	1467.5	4.6
20°-30°	2032.5	6.4
30°-40°	2833.9	8.9
40°-50°	4404.9	13.9
50°-60°	7071.5	22.3
60°-70°	7999.0	25.2
70°-80°	4697.9	14.8
80°-90°	546.5	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°	31724.0	100.0
0°-180°	31724.0	100.0

Coefficient of Utilization



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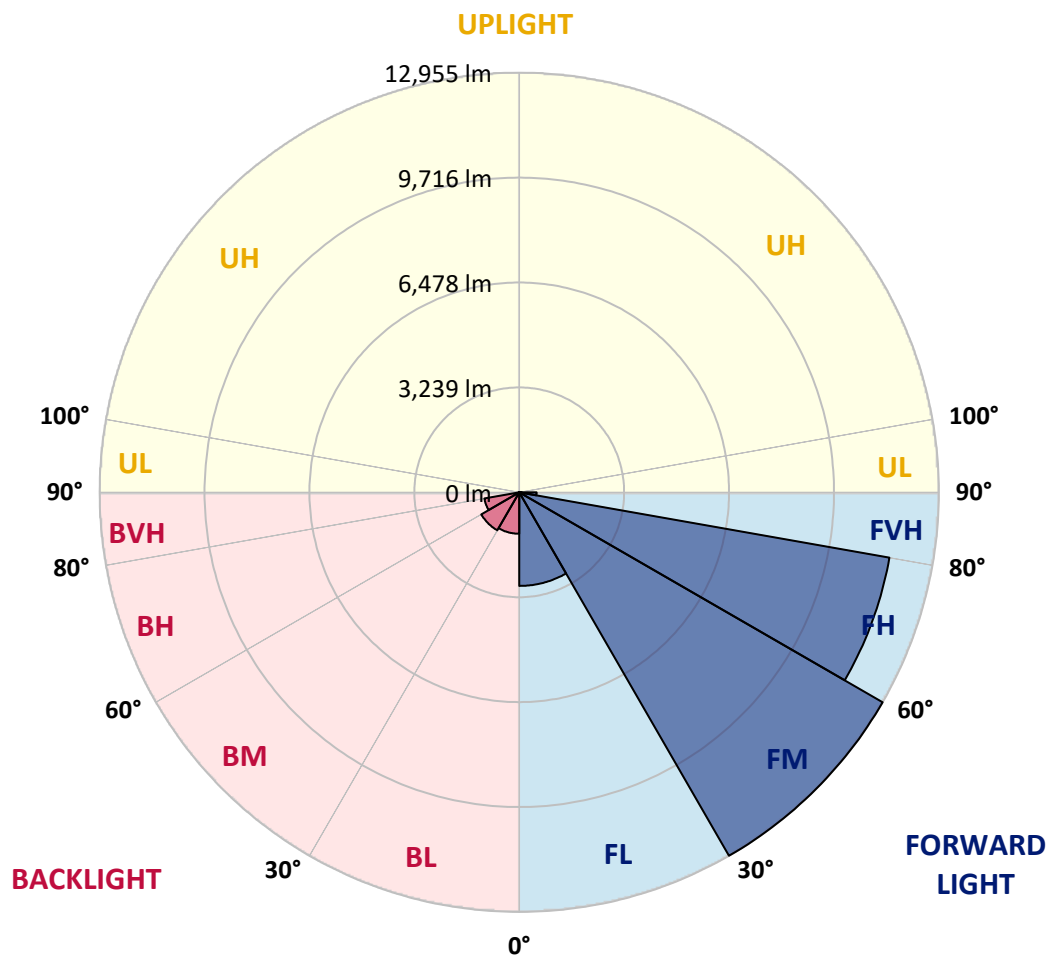
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2890.8	9.1			
FM	(30°-60°)	12955.2	40.8			
FH	(60°-80°)	11604.3	36.6			G4/12000
FVH	(80°-90°)	534.2	1.7			G4/750
BL	(0°-30°)	1279.5	4.0	B3/2500		
BM	(30°-60°)	1355.1	4.3	B2/2500		
BH	(60°-80°)	1092.6	3.4	B3/2500		G3/2500
BVH	(80°-90°)	12.3	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7
2.5°	8087.9	8067.7	8083.8	8118.7	8136.2	8136.2	8149.6	8133.5	8138.9	8099.9	8043.6
5°	7581.8	7550.9	7595.2	7693.2	7814.0	7917.4	8070.4	8150.9	8159.0	8160.3	8094.6
7.5°	7036.8	7008.6	7074.4	7189.8	7345.5	7537.5	7804.6	8038.2	8051.6	8177.8	8129.5
10°	6593.8	6573.6	6650.2	6773.7	6956.2	7171.0	7498.6	7823.4	7862.3	8141.6	8124.1
12.5°	6242.1	6226.0	6298.5	6440.8	6627.3	6864.9	7207.3	7584.5	7636.8	8059.7	8097.3
15°	5985.7	5983.0	6043.4	6180.3	6387.1	6608.6	6958.9	7363.0	7423.4	7971.1	8093.2
17.5°	5851.4	5855.5	5899.8	6016.6	6193.8	6413.9	6749.5	7176.4	7242.2	7891.9	8113.4
20°	5838.0	5842.1	5866.2	5932.0	6075.6	6270.3	6579.0	7019.3	7087.8	7832.8	8145.6
22.5°	5956.2	5953.5	5960.2	5953.5	6034.0	6181.7	6466.3	6898.5	6977.7	7793.9	8171.1
25°	6183.0	6179.0	6176.3	6126.6	6072.9	6152.1	6419.3	6830.0	6905.2	7765.7	8185.9
27.5°	6498.5	6495.8	6491.8	6409.9	6248.8	6199.1	6424.6	6804.5	6867.6	7742.9	8183.2
30°	6913.3	6932.1	6926.7	6812.6	6561.6	6342.8	6481.0	6791.1	6846.2	7698.6	8155.0
32.5°	7400.6	7438.1	7467.7	7345.5	7031.4	6627.3	6611.2	6805.9	6846.2	7665.0	8104.0
35°	7906.6	7955.0	8063.7	8020.7	7607.3	7055.6	6835.4	6894.5	6928.0	7683.8	8079.8
37.5°	8404.7	8462.4	8698.6	8823.5	8361.7	7622.0	7184.4	7113.3	7130.7	7797.9	8106.7
40°	8983.2	9070.5	9428.9	9630.3	9262.4	8380.5	7706.6	7489.2	7495.9	8048.9	8231.5
42.5°	9743.0	9833.0	10220.9	10536.4	10277.3	9339.0	8415.4	8063.7	8057.0	8518.8	8525.5
45°	10669.3	10763.2	11164.6	11515.0	11398.2	10474.6	9322.8	8902.7	8894.6	9259.8	9082.6
47.5°	11719.0	11811.6	12170.0	12531.1	12657.3	11800.9	10478.6	10047.7	10028.9	10289.4	9943.0
50°	12619.7	12680.1	13010.4	13496.3	14065.5	13430.5	11916.3	11501.5	11481.4	11657.3	11206.2
52.5°	12947.3	12982.2	13317.8	13998.4	15418.6	15637.4	13805.1	13270.8	13256.0	13332.5	12888.2
55°	12284.1	12347.2	12759.3	13768.8	16151.6	18131.6	16189.1	15461.6	15350.1	15185.0	14646.7
57.5°	10477.3	10578.0	11021.0	12363.3	15809.2	20110.2	19692.8	17939.6	17775.8	16766.4	16076.4
60°	7850.3	7973.8	8341.6	9790.0	13982.3	20815.0	23521.2	20700.9	20331.7	18025.5	17390.6
62.5°	5387.0	5448.7	5698.4	6642.1	10297.4	19660.5	26724.2	24399.2	23725.3	19394.7	18812.2
65°	4114.4	4135.9	4237.9	4562.8	6132.0	15970.3	27998.1	29278.7	28463.9	21032.5	20287.4
67.5°	3315.7	3298.2	3439.2	3903.6	4106.3	9743.0	26512.1	33895.2	33513.9	23221.9	21772.1
69°	2923.7	2899.5	3043.2	3582.8	3856.7	6440.8	23701.1	34943.6	34967.7	24377.7	21874.1
70°	2631.1	2647.2	2789.5	3392.2	3772.1	5055.4	21016.3	34676.4	34867.1	24809.9	21262.0
72.5°	1757.2	1800.1	2086.1	2816.3	3627.1	3825.8	12689.5	29756.6	30489.5	23836.7	18241.6
75°	990.7	1022.9	1362.5	2123.6	3417.7	3643.2	6702.5	21922.5	22631.2	19933.0	14066.8
77.5°	485.9	503.4	770.5	1370.6	2857.9	3471.4	3801.6	14891.1	15700.5	13010.4	7956.3
80°	205.4	214.8	385.3	845.7	2043.1	3313.0	2823.0	9164.4	9265.1	5097.0	2119.6
82.5°	79.2	81.9	162.4	527.6	1298.1	2582.7	2361.3	4345.3	4240.6	959.8	483.3
85°	9.4	10.7	59.1	316.8	722.2	1329.0	1918.3	1872.6	1733.0	190.6	248.3
87.5°	0.0	0.0	4.0	96.7	214.8	622.9	997.4	777.2	700.7	61.7	128.9
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°	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7	8016.7
2.5°	7996.6	7983.2	7910.7	7806.0	7706.6	7583.1	7465.0	7393.8	7337.5	7299.9	7344.2
5°	8018.1	7959.0	7738.8	7456.9	7180.4	6869.0	6579.0	6333.4	6236.7	6129.3	6177.6
7.5°	8011.3	7899.9	7503.9	7001.9	6494.4	5969.6	5472.9	5090.3	4891.6	4697.0	4746.7
10°	7977.8	7789.8	7189.8	6446.1	5686.3	4931.9	4227.2	3691.6	3392.2	3121.0	3160.0
12.5°	7904.0	7642.2	6819.3	5809.8	4793.6	3798.9	2973.4	2287.4	1919.6	1757.2	1777.3
15°	7859.7	7498.6	6427.3	5165.5	3840.6	2645.8	1817.6	1351.8	1184.0	1130.3	1137.0
17.5°	7838.2	7360.3	6021.9	4428.5	2866.0	1684.7	1174.6	1036.3	1000.1	990.7	993.4
20°	7816.7	7220.7	5604.4	3699.6	1974.6	1133.0	965.2	924.9	911.5	899.4	902.1
22.5°	7780.5	7086.4	5156.1	2961.3	1331.6	919.5	869.9	830.9	802.7	788.0	790.7
25°	7736.2	6945.5	4698.3	2205.5	971.9	820.2	773.2	718.2	684.6	657.8	659.1
27.5°	7665.0	6772.3	4225.8	1605.5	816.2	734.3	671.2	610.8	554.4	523.5	523.5
30°	7565.7	6576.3	3700.9	1149.1	731.6	649.7	573.2	498.0	437.6	409.4	406.7
32.5°	7455.6	6372.3	3170.7	871.2	664.5	570.5	483.3	404.1	350.4	327.5	326.2
35°	7361.6	6152.1	2641.8	730.3	597.4	494.0	398.7	331.6	288.6	269.8	268.5
37.5°	7301.2	5932.0	2126.3	652.4	537.0	422.9	334.3	273.8	243.0	228.2	226.9
40°	7291.8	5768.2	1655.2	593.3	480.6	359.8	279.2	232.2	204.0	187.9	186.6
42.5°	7414.0	5674.3	1269.9	543.7	422.9	304.7	237.6	198.7	169.1	153.0	151.7
45°	7734.8	5703.8	977.3	499.4	365.1	257.7	201.4	165.1	138.3	126.2	123.5
47.5°	8320.1	5907.8	777.2	455.1	310.1	218.8	171.8	136.9	114.1	102.0	100.7
50°	9361.8	6387.1	649.7	406.7	259.1	186.6	142.3	111.4	92.6	81.9	80.5
52.5°	10744.4	7240.8	579.9	359.8	214.8	158.4	116.8	88.6	72.5	64.4	63.1
55°	12269.4	8274.4	534.3	308.7	175.9	131.6	92.6	69.8	56.4	49.7	47.0
57.5°	13758.1	9169.8	491.3	259.1	146.3	107.4	73.8	55.0	44.3	37.6	36.2
60°	15126.0	9992.7	441.6	208.1	119.5	84.6	57.7	43.0	34.9	28.2	28.2
62.5°	16590.5	10629.0	373.2	162.4	98.0	64.4	47.0	38.9	28.2	24.2	22.8
65°	18142.3	11101.5	292.6	126.2	76.5	48.3	38.9	40.3	22.8	17.5	16.1
67.5°	19288.7	11007.5	216.1	99.3	59.1	37.6	37.6	43.0	20.1	13.4	12.1
69°	19036.3	10243.7	181.2	85.9	51.0	32.2	34.9	43.0	18.8	12.1	10.7
70°	18304.7	9398.0	159.7	76.5	45.6	29.5	33.6	41.6	17.5	12.1	10.7
72.5°	15244.1	7078.4	124.8	57.7	36.2	24.2	28.2	36.2	17.5	12.1	9.4
75°	11466.6	4530.5	95.3	41.6	26.8	18.8	21.5	26.8	17.5	10.7	9.4
77.5°	6239.4	1633.7	68.5	28.2	18.8	14.8	14.8	20.1	16.1	8.1	5.4
80°	1604.1	410.8	43.0	18.8	14.8	10.7	9.4	13.4	9.4	1.3	0.0
82.5°	396.0	92.6	22.8	13.4	10.7	4.0	4.0	6.7	4.0	0.0	0.0
85°	217.5	45.6	14.8	9.4	5.4	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	111.4	13.4	4.0	2.7	1.3	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)