

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: P323271

Luminaire Tested: **GAN-SA7A-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323271
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-SA7A-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 27302 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

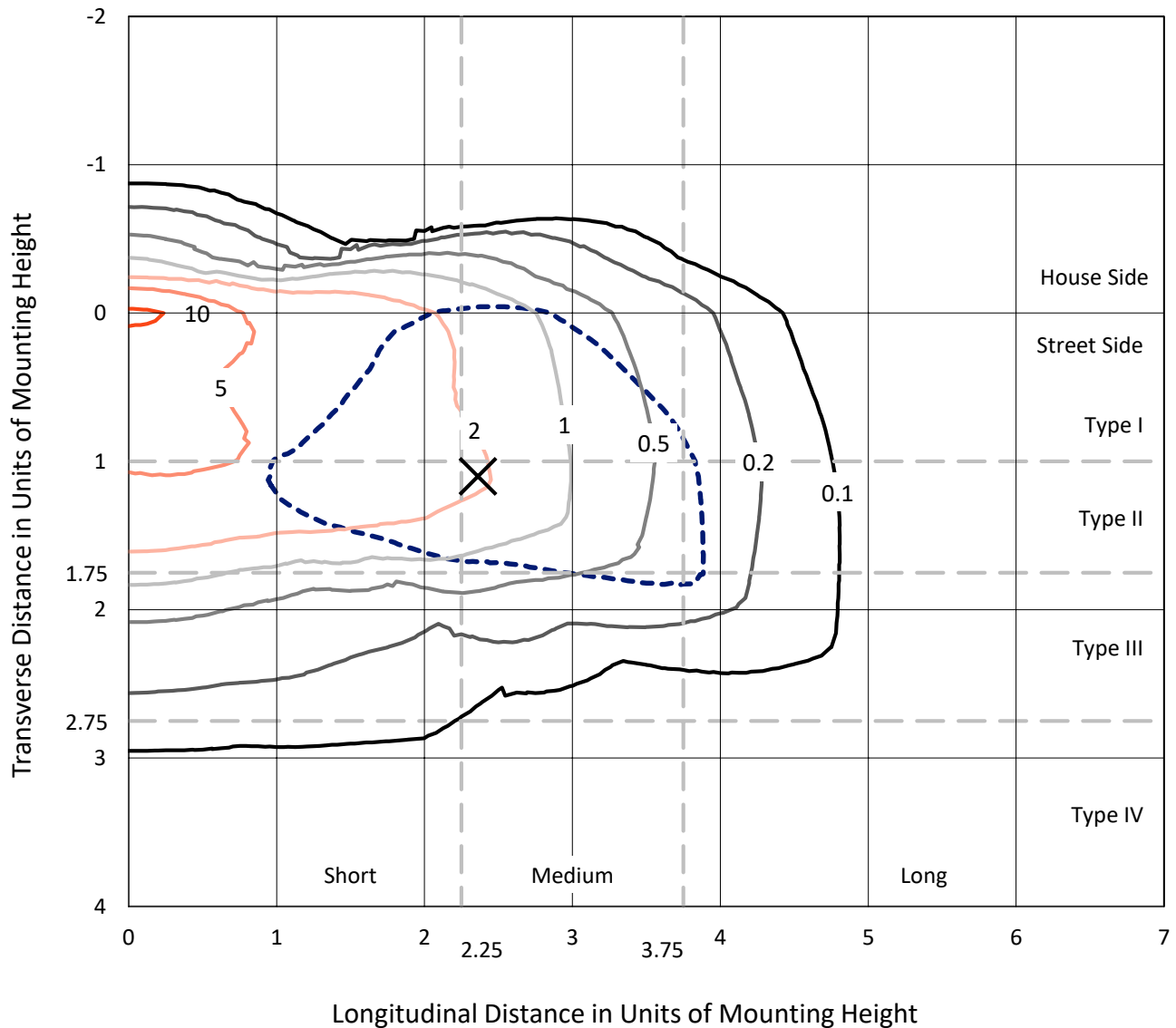
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

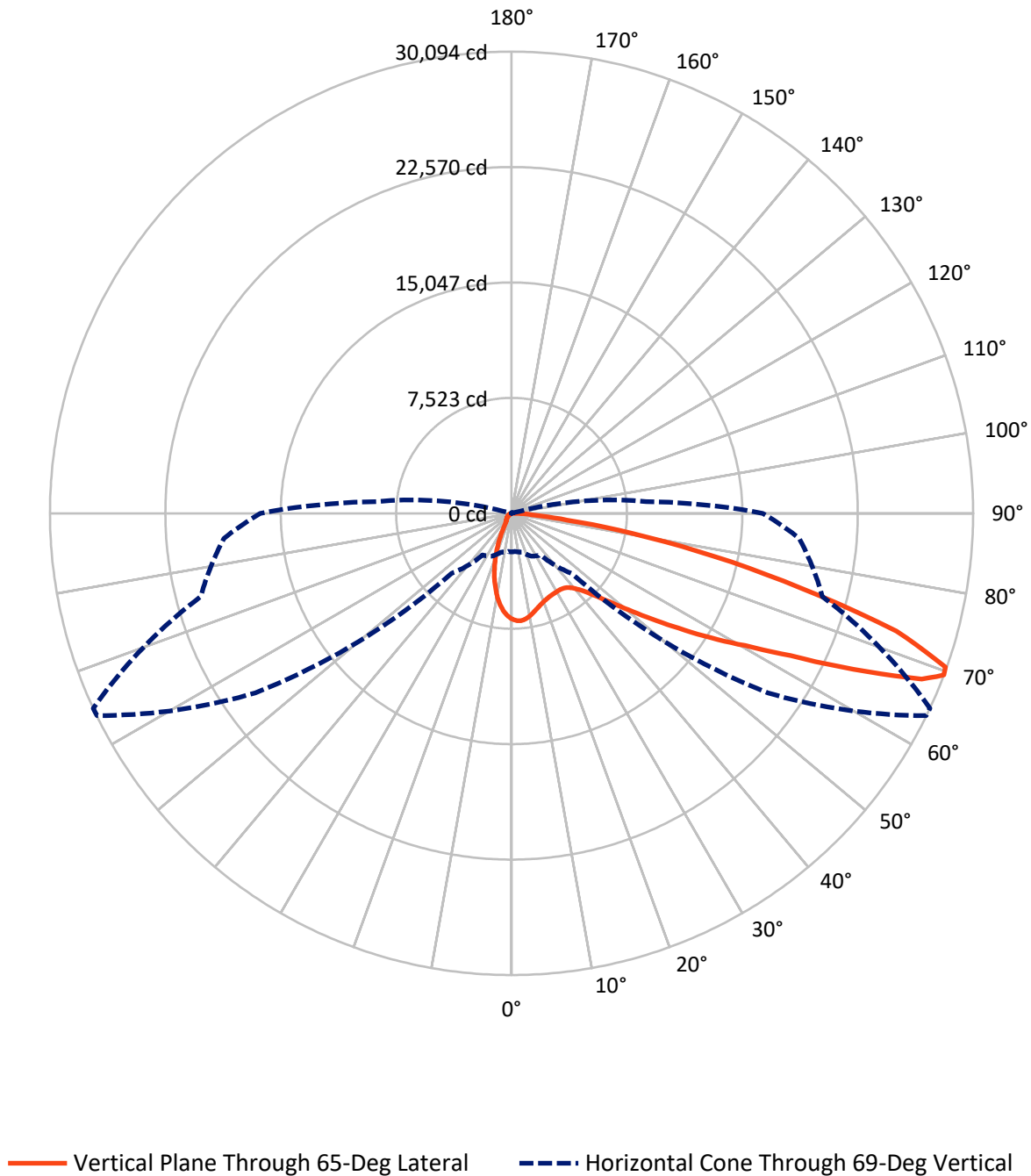
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	3218.3	0.0	3218.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24083.7	0.0	24083.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	27302.0	0.0	27302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	2.1
10°-20°	1262.9	4.6
20°-30°	1749.2	6.4
30°-40°	2438.9	8.9
40°-50°	3790.9	13.9
50°-60°	6085.8	22.3
60°-70°	6884.1	25.2
70°-80°	4043.1	14.8
80°-90°	470.3	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°	27302.0	100.0
0°-180°	27302.0	100.0

Coefficient of Utilization



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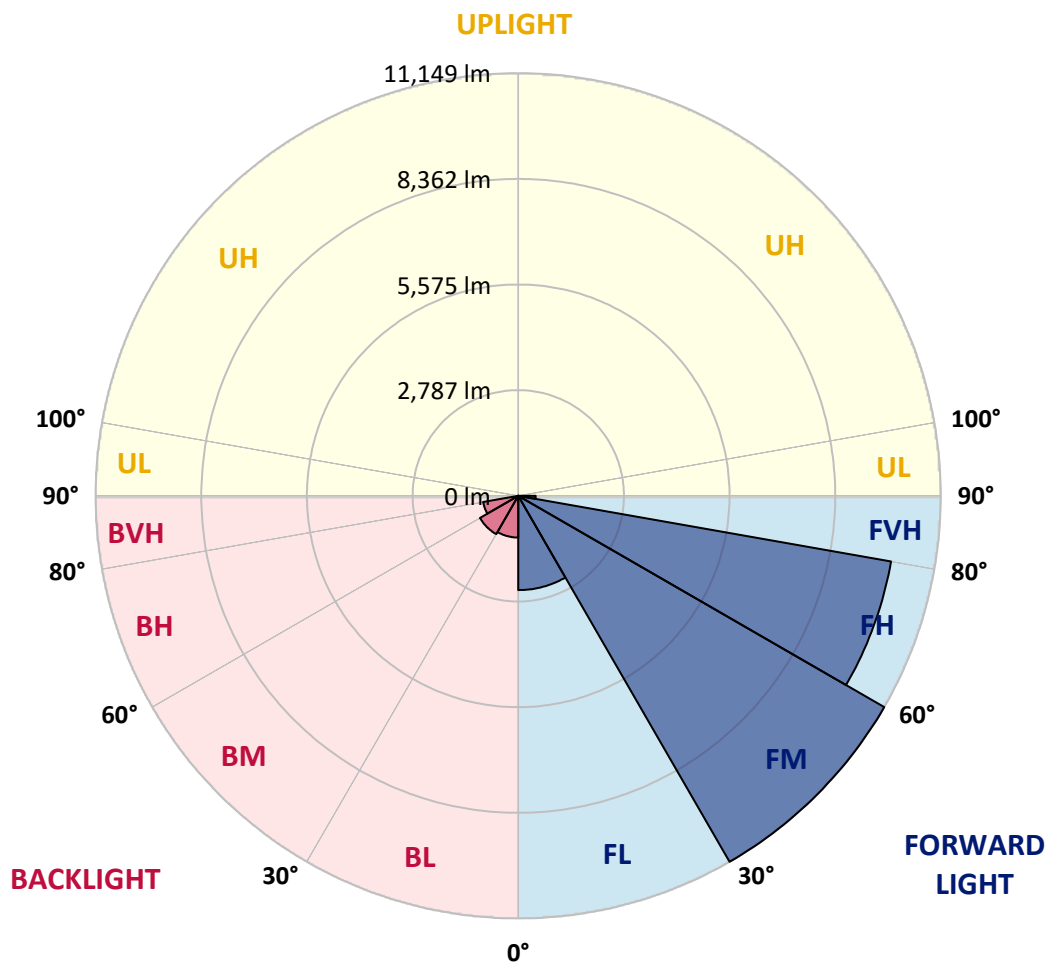
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2487.8	9.1			
FM	(30°-60°)	11149.4	40.8			
FH	(60°-80°)	9986.8	36.6			G4/12000
FVH	(80°-90°)	459.7	1.7			G3/500
BL	(0°-30°)	1101.1	4.0	B3/2500		
BM	(30°-60°)	1166.2	4.3	B2/2500		
BH	(60°-80°)	940.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	10.6	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°	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3
2.5°	6960.5	6943.2	6957.0	6987.1	7002.1	7002.1	7013.6	6999.8	7004.4	6970.9	6922.4
5°	6525.0	6498.4	6536.5	6620.8	6724.8	6813.8	6945.5	7014.8	7021.7	7022.9	6966.3
7.5°	6055.9	6031.7	6088.3	6187.6	6321.6	6486.8	6716.7	6917.7	6929.3	7037.9	6996.3
10°	5674.7	5657.3	5723.2	5829.5	5986.6	6171.4	6453.3	6732.9	6766.4	7006.7	6991.7
12.5°	5372.0	5358.1	5420.5	5543.0	5703.6	5908.0	6202.6	6527.3	6572.3	6936.2	6968.6
15°	5151.3	5149.0	5201.0	5318.9	5496.8	5687.4	5988.9	6336.6	6388.6	6860.0	6965.1
17.5°	5035.8	5039.3	5077.4	5177.9	5330.4	5519.9	5808.7	6176.1	6232.7	6791.8	6982.4
20°	5024.3	5027.7	5048.5	5105.1	5228.7	5396.3	5662.0	6040.9	6099.8	6741.0	7010.2
22.5°	5125.9	5123.6	5129.4	5123.6	5192.9	5320.0	5564.9	5936.9	6005.1	6707.5	7032.1
25°	5321.2	5317.7	5315.4	5272.6	5226.4	5294.6	5524.5	5878.0	5942.7	6683.2	7044.8
27.5°	5592.7	5590.3	5586.9	5516.4	5377.8	5335.0	5529.1	5856.1	5910.4	6663.6	7042.5
30°	5949.6	5965.8	5961.2	5863.0	5647.0	5458.6	5577.6	5844.5	5891.9	6625.5	7018.3
32.5°	6369.0	6401.3	6426.8	6321.6	6051.3	5703.6	5689.7	5857.2	5891.9	6596.6	6974.4
35°	6804.5	6846.1	6939.7	6902.7	6546.9	6072.1	5882.6	5933.5	5962.3	6612.8	6953.6
37.5°	7233.1	7282.8	7486.1	7593.6	7196.2	6559.6	6183.0	6121.8	6136.8	6711.0	6976.7
40°	7731.1	7806.1	8114.6	8287.9	7971.4	7212.3	6632.4	6445.2	6451.0	6927.0	7084.1
42.5°	8384.9	8462.3	8796.2	9067.7	8844.7	8037.2	7242.4	6939.7	6933.9	7331.3	7337.1
45°	9182.1	9262.9	9608.4	9909.9	9809.4	9014.6	8023.3	7661.7	7654.8	7969.0	7816.5
47.5°	10085.5	10165.2	10473.7	10784.4	10893.0	10156.0	9018.0	8647.2	8631.0	8855.1	8557.1
50°	10860.7	10912.7	11196.9	11615.1	12104.9	11558.5	10255.3	9898.3	9881.0	10032.4	9644.2
52.5°	11142.6	11172.6	11461.4	12047.1	13269.4	13457.7	11880.8	11421.0	11408.3	11474.1	11091.7
55°	10571.9	10626.2	10980.8	11849.6	13900.2	15604.2	13932.5	13306.4	13210.5	13068.4	12605.1
57.5°	9016.9	9103.5	9484.8	10640.0	13605.6	17307.1	16947.8	15439.0	15298.1	14429.3	13835.5
60°	6756.0	6862.3	7178.8	8425.4	12033.3	17913.6	20242.6	17815.4	17497.7	15512.9	14966.5
62.5°	4636.1	4689.2	4904.1	5716.3	8862.1	16920.1	22999.1	20998.2	20418.2	16691.3	16189.9
65°	3540.9	3559.4	3647.2	3926.8	5277.3	13744.2	24095.4	25197.6	24496.3	18100.7	17459.6
67.5°	2853.5	2838.5	2959.8	3359.5	3534.0	8384.9	22816.6	29170.5	28842.4	19985.0	18737.3
69°	2516.2	2495.4	2619.0	3083.4	3319.1	5543.0	20397.4	30072.8	30093.6	20979.7	18825.1
70°	2264.3	2278.2	2400.6	2919.4	3246.3	4350.7	18086.9	29842.9	30006.9	21351.7	18298.3
72.5°	1512.2	1549.2	1795.3	2423.8	3121.5	3292.5	10920.8	25608.8	26239.6	20514.1	15698.9
75°	852.6	880.3	1172.6	1827.6	2941.3	3135.4	5768.3	18866.7	19476.7	17154.6	12106.1
77.5°	418.2	433.2	663.1	1179.5	2459.6	2987.5	3271.7	12815.4	13512.0	11196.9	6847.3
80°	176.8	184.8	331.6	727.8	1758.3	2851.2	2429.5	7887.0	7973.7	4386.6	1824.2
82.5°	68.2	70.5	139.8	454.0	1117.1	2222.7	2032.1	3739.6	3649.5	826.0	415.9
85°	8.1	9.2	50.8	272.6	621.5	1143.7	1650.9	1611.6	1491.5	164.0	213.7
87.5°	0.0	0.0	3.5	83.2	184.8	536.0	858.4	668.9	603.1	53.1	110.9
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°	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3	6899.3
2.5°	6881.9	6870.4	6808.0	6717.9	6632.4	6526.1	6424.4	6363.2	6314.7	6282.3	6320.5
5°	6900.4	6849.6	6660.1	6417.5	6179.5	5911.5	5662.0	5450.6	5367.4	5275.0	5316.5
7.5°	6894.6	6798.8	6458.0	6025.9	5589.2	5137.5	4710.0	4380.8	4209.8	4042.3	4085.0
10°	6865.8	6704.0	6187.6	5547.6	4893.7	4244.5	3637.9	3177.0	2919.4	2686.0	2719.5
12.5°	6802.2	6576.9	5868.8	5000.0	4125.5	3269.4	2558.9	1968.6	1652.0	1512.2	1529.6
15°	6764.1	6453.3	5531.4	4445.5	3305.2	2277.0	1564.2	1163.4	1018.9	972.7	978.5
17.5°	6745.6	6334.3	5182.5	3811.2	2466.5	1449.9	1010.9	891.9	860.7	852.6	854.9
20°	6727.1	6214.2	4823.2	3183.9	1699.4	975.0	830.6	796.0	784.4	774.0	776.3
22.5°	6695.9	6098.7	4437.4	2548.5	1146.0	791.4	748.6	715.1	690.9	678.1	680.5
25°	6657.8	5977.4	4043.4	1898.1	836.4	705.9	665.4	618.1	589.2	566.1	567.2
27.5°	6596.6	5828.3	3636.8	1381.7	702.4	631.9	577.6	525.6	477.1	450.6	450.6
30°	6511.1	5659.7	3185.1	988.9	629.6	559.1	493.3	428.6	376.6	352.4	350.0
32.5°	6416.4	5484.1	2728.7	749.8	571.9	491.0	415.9	347.7	301.5	281.9	280.7
35°	6335.5	5294.6	2273.6	628.5	514.1	425.1	343.1	285.4	248.4	232.2	231.1
37.5°	6283.5	5105.1	1829.9	561.5	462.1	363.9	287.7	235.7	209.1	196.4	195.2
40°	6275.4	4964.2	1424.4	510.6	413.6	309.6	240.3	199.9	175.6	161.7	160.6
42.5°	6380.5	4883.3	1092.9	467.9	363.9	262.2	204.5	171.0	145.6	131.7	130.5
45°	6656.7	4908.7	841.0	429.8	314.2	221.8	173.3	142.1	119.0	108.6	106.3
47.5°	7160.4	5084.3	668.9	391.6	266.9	188.3	147.9	117.8	98.2	87.8	86.6
50°	8056.8	5496.8	559.1	350.0	223.0	160.6	122.5	95.9	79.7	70.5	69.3
52.5°	9246.8	6231.5	499.1	309.6	184.8	136.3	100.5	76.2	62.4	55.5	54.3
55°	10559.2	7121.1	459.8	265.7	151.3	113.2	79.7	60.1	48.5	42.7	40.4
57.5°	11840.3	7891.6	422.8	223.0	125.9	92.4	63.5	47.4	38.1	32.3	31.2
60°	13017.6	8599.8	380.1	179.1	102.8	72.8	49.7	37.0	30.0	24.3	24.3
62.5°	14278.0	9147.4	321.2	139.8	84.3	55.5	40.4	33.5	24.3	20.8	19.6
65°	15613.5	9554.1	251.8	108.6	65.9	41.6	33.5	34.7	19.6	15.0	13.9
67.5°	16600.1	9473.2	186.0	85.5	50.8	32.3	32.3	37.0	17.3	11.6	10.4
69°	16382.9	8815.9	156.0	73.9	43.9	27.7	30.0	37.0	16.2	10.4	9.2
70°	15753.2	8088.0	137.5	65.9	39.3	25.4	28.9	35.8	15.0	10.4	9.2
72.5°	13119.2	6091.7	107.4	49.7	31.2	20.8	24.3	31.2	15.0	10.4	8.1
75°	9868.3	3899.0	82.0	35.8	23.1	16.2	18.5	23.1	15.0	9.2	8.1
77.5°	5369.7	1406.0	58.9	24.3	16.2	12.7	12.7	17.3	13.9	6.9	4.6
80°	1380.5	353.5	37.0	16.2	12.7	9.2	8.1	11.6	8.1	1.2	0.0
82.5°	340.8	79.7	19.6	11.6	9.2	3.5	3.5	5.8	3.5	0.0	0.0
85°	187.2	39.3	12.7	8.1	4.6	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	95.9	11.6	3.5	2.3	1.2	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)