

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: P323121

Luminaire Tested: **GAN-SA7B-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323121
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-SA7B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 27999 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

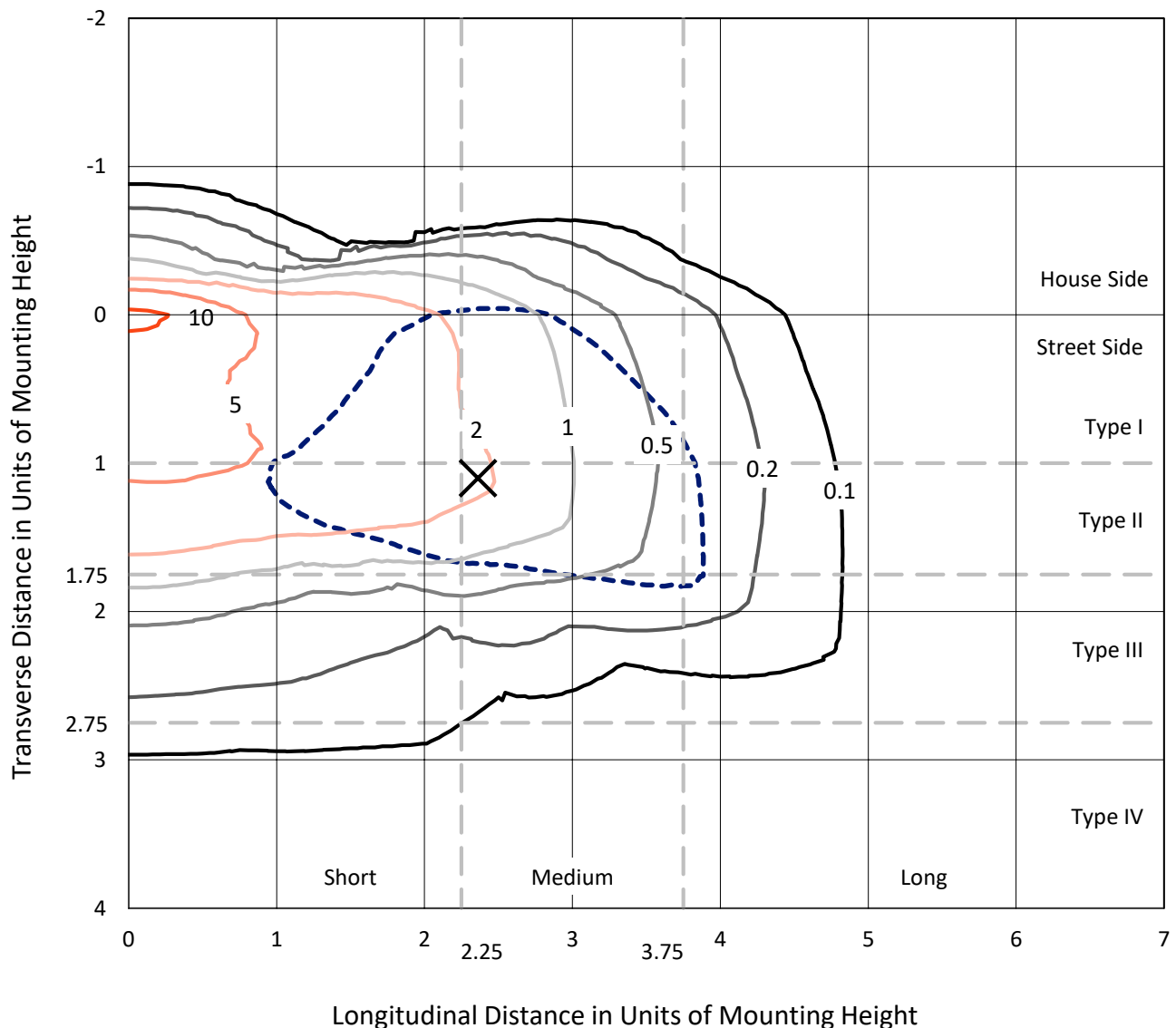
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

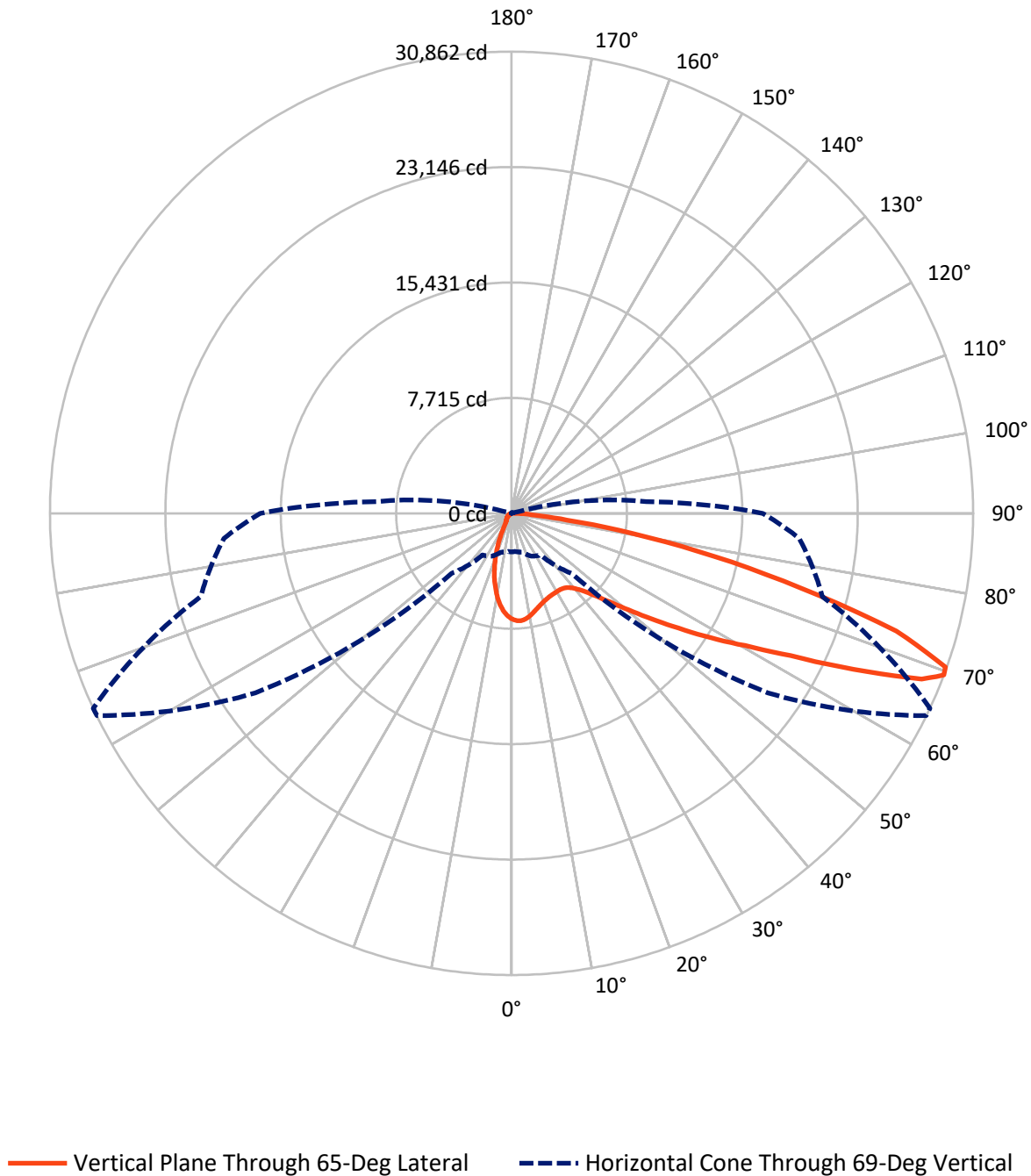
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	3300.4	0.0	3300.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24698.6	0.0	24698.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	27999.0	0.0	27999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.6	2.1
10°-20°	1295.1	4.6
20°-30°	1793.8	6.4
30°-40°	2501.2	8.9
40°-50°	3887.6	13.9
50°-60°	6241.2	22.3
60°-70°	7059.8	25.2
70°-80°	4146.3	14.8
80°-90°	482.3	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°	27999.0	100.0
0°-180°	27999.0	100.0

Coefficient of Utilization



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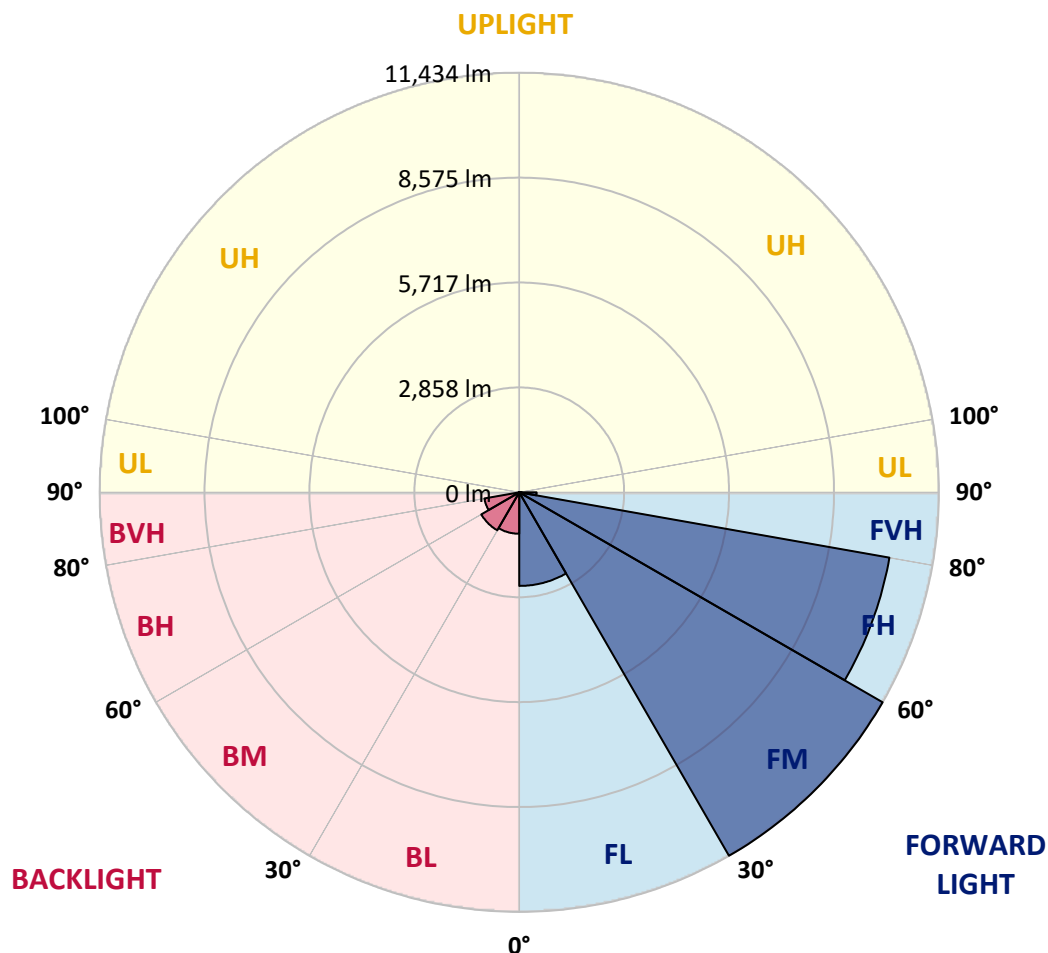
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2551.4	9.1			
FM	(30°-60°)	11434.0	40.8			
FH	(60°-80°)	10241.8	36.6			G4/12000
FVH	(80°-90°)	471.5	1.7			G3/500
BL	(0°-30°)	1129.3	4.0	B3/2500		
BM	(30°-60°)	1196.0	4.3	B2/2500		
BH	(60°-80°)	964.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	10.8	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°	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4
2.5°	7138.2	7120.4	7134.6	7165.4	7180.8	7180.8	7192.7	7178.5	7183.2	7148.9	7099.1
5°	6691.5	6664.3	6703.4	6789.9	6896.5	6987.7	7122.8	7193.9	7201.0	7202.2	7144.1
7.5°	6210.5	6185.6	6243.7	6345.6	6483.0	6652.4	6888.2	7094.4	7106.2	7217.6	7174.9
10°	5819.5	5801.8	5869.3	5978.3	6139.4	6329.0	6618.1	6904.8	6939.1	7185.6	7170.2
12.5°	5509.1	5494.9	5558.9	5684.5	5849.2	6058.9	6361.0	6693.9	6740.1	7113.3	7146.5
15°	5282.9	5280.5	5333.8	5454.6	5637.1	5832.6	6141.8	6498.4	6551.7	7035.1	7142.9
17.5°	5164.4	5167.9	5207.0	5310.1	5466.5	5660.8	5957.0	6333.7	6391.8	6965.2	7160.7
20°	5152.5	5156.1	5177.4	5235.5	5362.2	5534.0	5806.5	6195.1	6255.5	6913.1	7189.1
22.5°	5256.8	5254.4	5260.3	5254.4	5325.5	5455.8	5707.0	6088.5	6158.4	6878.7	7211.6
25°	5457.0	5453.5	5451.1	5407.3	5359.9	5429.8	5665.5	6028.1	6094.4	6853.8	7224.7
27.5°	5735.4	5733.1	5729.5	5657.2	5515.1	5471.2	5670.3	6005.6	6061.2	6833.7	7222.3
30°	6101.5	6118.1	6113.4	6012.7	5791.1	5598.0	5720.0	5993.7	6042.3	6794.6	7197.4
32.5°	6531.6	6564.8	6590.8	6483.0	6205.8	5849.2	5835.0	6006.7	6042.3	6765.0	7152.4
35°	6978.2	7020.9	7116.9	7079.0	6714.0	6227.1	6032.8	6084.9	6114.6	6781.6	7131.1
37.5°	7417.8	7468.7	7677.3	7787.4	7379.9	6727.1	6340.8	6278.1	6293.5	6882.3	7154.8
40°	7928.4	8005.4	8321.8	8499.5	8174.9	7396.5	6801.7	6609.8	6615.7	7103.8	7265.0
42.5°	8599.0	8678.4	9020.8	9299.2	9070.5	8242.4	7427.3	7116.9	7110.9	7518.5	7524.4
45°	9416.5	9499.4	9853.7	10162.9	10059.8	9244.7	8228.2	7857.3	7850.2	8172.5	8016.1
47.5°	10343.0	10424.7	10741.0	11059.7	11171.1	10415.2	9248.2	8867.9	8851.4	9081.2	8775.5
50°	11137.9	11191.3	11482.7	11911.6	12413.9	11853.5	10517.1	10151.0	10133.3	10288.5	9890.4
52.5°	11427.0	11457.8	11754.0	12354.7	13608.2	13801.3	12184.1	11712.6	11699.5	11767.1	11374.9
55°	10841.8	10897.4	11261.2	12152.1	14255.1	16002.6	14288.2	13646.1	13547.7	13402.0	12926.9
57.5°	9247.1	9335.9	9726.9	10911.7	13952.9	17748.9	17380.5	15833.2	15688.6	14797.7	14188.7
60°	6928.5	7037.5	7362.1	8640.5	12340.5	18370.9	20759.4	18270.2	17944.4	15909.0	15348.6
62.5°	4754.4	4808.9	5029.3	5862.2	9088.3	17352.0	23586.2	21534.2	20939.5	17117.4	16603.2
65°	3631.3	3650.3	3740.3	4027.0	5412.0	14095.1	24710.6	25840.8	25121.7	18562.8	17905.3
67.5°	2926.4	2911.0	3035.4	3445.3	3624.2	8599.0	23399.0	29915.2	29578.8	20495.2	19215.6
69°	2580.4	2559.1	2685.9	3162.1	3403.8	5684.5	20918.2	30840.5	30861.9	21515.3	19305.7
70°	2322.1	2336.3	2461.9	2993.9	3329.2	4461.8	18548.6	30604.8	30773.0	21896.8	18765.4
72.5°	1550.9	1588.8	1841.1	2485.6	3201.2	3376.6	11199.6	26262.6	26909.5	21037.8	16099.7
75°	874.4	902.8	1202.5	1874.3	3016.4	3215.4	5915.5	19348.3	19973.9	17592.5	12415.1
77.5°	428.9	444.3	680.1	1209.6	2522.4	3063.8	3355.2	13142.6	13857.0	11482.7	7022.1
80°	181.3	189.6	340.0	746.4	1803.2	2924.0	2491.6	8088.4	8177.2	4498.5	1870.7
82.5°	69.9	72.3	143.4	465.6	1145.7	2279.5	2084.0	3835.1	3742.7	847.1	426.5
85°	8.3	9.5	52.1	279.6	637.4	1172.9	1693.0	1652.7	1529.5	168.2	219.2
87.5°	0.0	0.0	3.6	85.3	189.6	549.7	880.3	686.0	618.4	54.5	113.7
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°	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4
2.5°	7057.6	7045.8	6981.8	6889.4	6801.7	6692.7	6588.5	6525.7	6475.9	6442.7	6481.8
5°	7076.6	7024.5	6830.2	6581.4	6337.3	6062.4	5806.5	5589.7	5504.4	5409.6	5452.3
7.5°	7070.7	6972.3	6622.8	6179.7	5731.9	5268.6	4830.3	4492.6	4317.3	4145.5	4189.3
10°	7041.0	6875.2	6345.6	5689.2	5018.7	4352.8	3730.8	3258.1	2993.9	2754.6	2788.9
12.5°	6975.9	6744.8	6018.6	5127.6	4230.8	3352.9	2624.2	2018.8	1694.2	1550.9	1568.6
15°	6936.8	6618.1	5672.6	4559.0	3389.6	2335.2	1604.2	1193.1	1045.0	997.6	1003.5
17.5°	6917.8	6496.0	5314.8	3908.5	2529.5	1486.9	1036.7	914.6	882.6	874.4	876.7
20°	6898.9	6372.8	4946.4	3265.2	1742.8	999.9	851.8	816.3	804.5	793.8	796.2
22.5°	6866.9	6254.4	4550.7	2613.6	1175.3	811.6	767.7	733.4	708.5	695.5	697.8
25°	6827.8	6130.0	4146.7	1946.6	857.8	723.9	682.4	633.8	604.2	580.5	581.7
27.5°	6765.0	5977.1	3729.6	1417.0	720.3	648.1	592.4	539.1	489.3	462.1	462.1
30°	6677.3	5804.1	3266.4	1014.2	645.7	573.4	505.9	439.5	386.2	361.4	359.0
32.5°	6580.2	5624.1	2798.4	768.9	586.5	503.5	426.5	356.6	309.2	289.1	287.9
35°	6497.2	5429.8	2331.6	644.5	527.2	436.0	351.9	292.6	254.7	238.1	237.0
37.5°	6443.9	5235.5	1876.7	575.8	473.9	373.2	295.0	241.7	214.4	201.4	200.2
40°	6435.6	5090.9	1460.8	523.7	424.1	317.5	246.4	205.0	180.1	165.9	164.7
42.5°	6543.4	5008.0	1120.8	479.8	373.2	268.9	209.7	175.3	149.3	135.1	133.9
45°	6826.6	5034.1	862.5	440.7	322.3	227.5	177.7	145.7	122.0	111.4	109.0
47.5°	7343.2	5214.1	686.0	401.6	273.7	193.1	151.6	120.8	100.7	90.0	88.9
50°	8262.5	5637.1	573.4	359.0	228.7	164.7	125.6	98.3	81.7	72.3	71.1
52.5°	9482.8	6390.6	511.8	317.5	189.6	139.8	103.1	78.2	64.0	56.9	55.7
55°	10828.7	7302.9	471.5	272.5	155.2	116.1	81.7	61.6	49.8	43.8	41.5
57.5°	12142.6	8093.1	433.6	228.7	129.1	94.8	65.2	48.6	39.1	33.2	32.0
60°	13349.9	8819.4	389.8	183.6	105.4	74.6	50.9	37.9	30.8	24.9	24.9
62.5°	14642.5	9380.9	329.4	143.4	86.5	56.9	41.5	34.4	24.9	21.3	20.1
65°	16012.1	9798.0	258.3	111.4	67.5	42.7	34.4	35.5	20.1	15.4	14.2
67.5°	17023.8	9715.0	190.7	87.7	52.1	33.2	33.2	37.9	17.8	11.8	10.7
69°	16801.1	9040.9	159.9	75.8	45.0	28.4	30.8	37.9	16.6	10.7	9.5
70°	16155.4	8294.5	141.0	67.5	40.3	26.1	29.6	36.7	15.4	10.7	9.5
72.5°	13454.2	6247.2	110.2	50.9	32.0	21.3	24.9	32.0	15.4	10.7	8.3
75°	10120.2	3998.6	84.1	36.7	23.7	16.6	19.0	23.7	15.4	9.5	8.3
77.5°	5506.8	1441.9	60.4	24.9	16.6	13.0	13.0	17.8	14.2	7.1	4.7
80°	1415.8	362.5	37.9	16.6	13.0	9.5	8.3	11.8	8.3	1.2	0.0
82.5°	349.5	81.7	20.1	11.8	9.5	3.6	3.6	5.9	3.6	0.0	0.0
85°	191.9	40.3	13.0	8.3	4.7	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	98.3	11.8	3.6	2.4	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)