

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: P323324

Luminaire Tested: **GAN-SA0B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323324
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-SA0B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 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: 34441 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

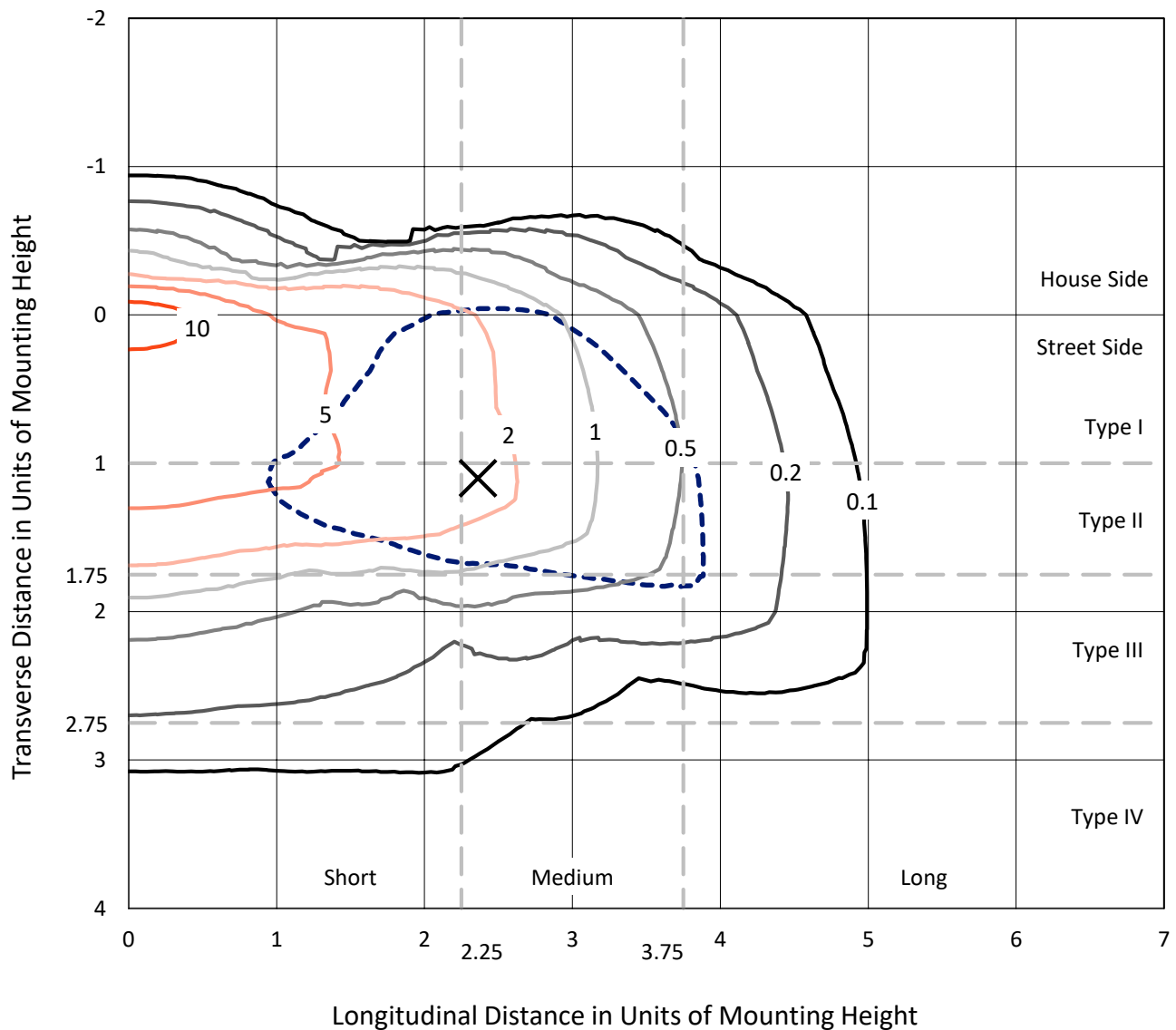
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

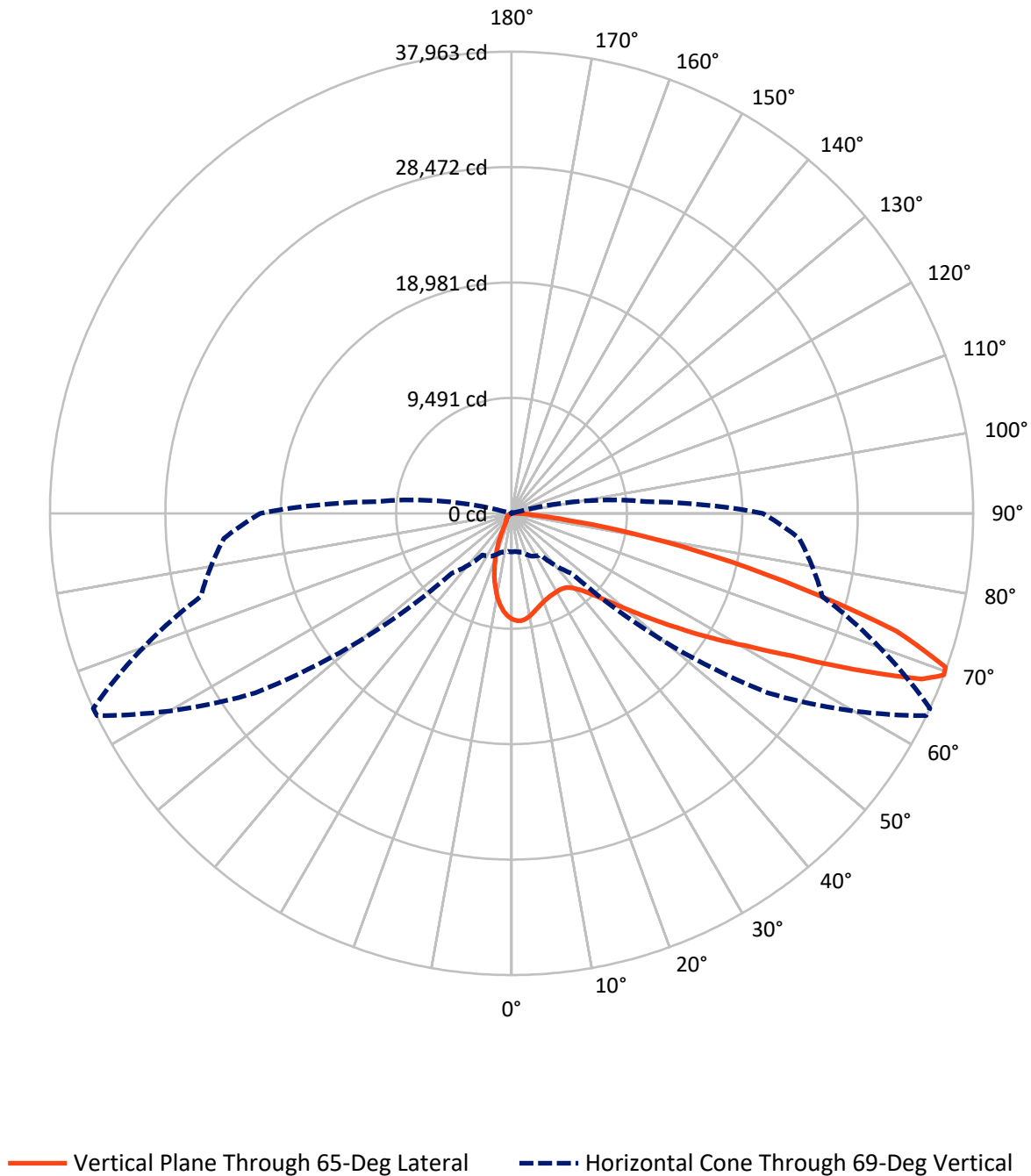
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	4059.8	0.0	4059.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	30381.2	0.0	30381.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	34441.0	0.0	34441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.8	2.1
10°-20°	1593.1	4.6
20°-30°	2206.6	6.4
30°-40°	3076.6	8.9
40°-50°	4782.1	13.9
50°-60°	7677.1	22.3
60°-70°	8684.1	25.2
70°-80°	5100.3	14.8
80°-90°	593.3	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°	34441.0	100.0
0°-180°	34441.0	100.0

Coefficient of Utilization



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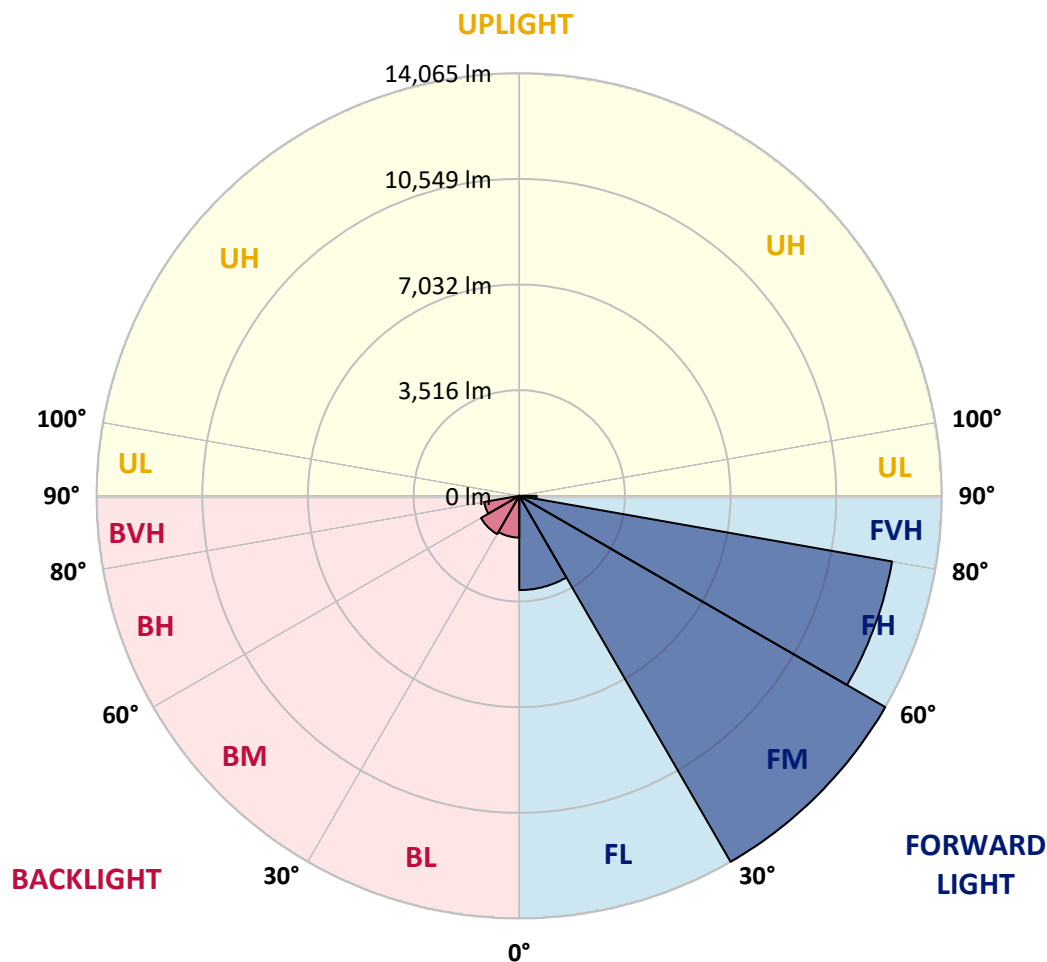
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3138.4	9.1			
FM	(30°-60°)	14064.7	40.8			
FH	(60°-80°)	12598.2	36.6			G5
FVH	(80°-90°)	579.9	1.7			G4/750
BL	(0°-30°)	1389.1	4.0	B3/2500		
BM	(30°-60°)	1471.2	4.3	B2/2500		
BH	(60°-80°)	1186.2	3.4	B3/2500		G3/2500
BVH	(80°-90°)	13.3	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3
2.5°	8780.5	8758.7	8776.2	8814.1	8833.0	8833.0	8847.6	8830.1	8835.9	8793.7	8732.4
5°	8231.1	8197.6	8245.7	8352.1	8483.2	8595.5	8761.6	8849.0	8857.8	8859.2	8787.8
7.5°	7639.4	7608.8	7680.2	7805.6	7974.6	8183.0	8473.0	8726.6	8741.2	8878.2	8825.7
10°	7158.5	7136.6	7219.7	7353.8	7552.0	7785.2	8140.8	8493.4	8535.7	8838.8	8819.9
12.5°	6776.7	6759.2	6837.9	6992.4	7194.9	7452.9	7824.5	8234.0	8290.9	8749.9	8790.7
15°	6498.3	6495.4	6561.0	6709.6	6934.1	7174.5	7554.9	7993.6	8059.2	8653.8	8786.4
17.5°	6352.6	6357.0	6405.1	6531.8	6724.2	6963.2	7327.6	7791.0	7862.4	8567.8	8808.2
20°	6338.0	6342.4	6368.6	6440.0	6596.0	6807.3	7142.5	7620.5	7694.8	8503.6	8843.2
22.5°	6466.3	6463.4	6470.6	6463.4	6550.8	6711.1	7020.1	7489.3	7575.3	8461.4	8870.9
25°	6712.6	6708.2	6705.3	6651.4	6593.1	6679.0	6969.1	7415.0	7496.6	8430.8	8886.9
27.5°	7055.0	7052.1	7047.8	6958.9	6784.0	6730.0	6974.9	7387.3	7455.8	8406.0	8884.0
30°	7505.4	7525.8	7519.9	7396.1	7123.5	6886.0	7036.1	7372.7	7432.5	8357.9	8853.4
32.5°	8034.4	8075.2	8107.2	7974.6	7633.6	7194.9	7177.5	7388.8	7432.5	8321.5	8798.0
35°	8583.8	8636.3	8754.3	8707.7	8258.8	7659.8	7420.8	7485.0	7521.4	8341.9	8771.8
37.5°	9124.5	9187.1	9443.6	9579.2	9077.8	8274.8	7799.7	7722.5	7741.4	8465.8	8800.9
40°	9752.6	9847.3	10236.4	10455.0	10055.7	9098.2	8366.7	8130.6	8137.8	8738.3	8936.5
42.5°	10577.5	10675.1	11096.3	11438.7	11157.5	10138.8	9136.1	8754.3	8747.0	9248.4	9255.6
45°	11583.0	11685.0	12120.8	12501.2	12374.4	11371.7	10121.3	9665.2	9656.4	10052.8	9860.4
47.5°	12722.7	12823.2	13212.3	13604.4	13741.4	12811.6	11376.1	10908.3	10887.9	11170.6	10794.6
50°	13700.6	13766.1	14124.6	14652.2	15270.1	14580.8	12936.9	12486.6	12464.7	12655.6	12166.0
52.5°	14056.2	14094.0	14458.4	15197.3	16739.1	16976.7	14987.4	14407.4	14391.3	14474.4	13992.0
55°	13336.2	13404.7	13852.1	14948.1	17534.8	19684.4	17575.7	16785.8	16664.8	16485.6	15901.2
57.5°	11374.6	11483.9	11964.9	13422.2	17163.2	21832.6	21379.3	19476.0	19298.2	18202.3	17453.2
60°	8522.6	8656.7	9056.0	10628.5	15179.8	22597.7	25535.7	22473.8	22073.0	19569.3	18880.0
62.5°	5848.4	5915.4	6186.5	7211.0	11179.3	21344.4	29012.9	26488.8	25757.2	21055.8	20423.3
65°	4466.8	4490.1	4600.9	4953.5	6657.2	17338.1	30396.0	31786.3	30901.7	22833.8	22024.9
67.5°	3599.7	3580.7	3733.7	4238.0	4458.0	10577.5	28782.7	36798.1	36384.2	25210.7	23636.8
69°	3174.1	3147.9	3303.8	3889.7	4187.0	6992.4	25731.0	37936.3	37962.5	26465.5	23747.5
70°	2856.4	2873.9	3028.4	3682.7	4095.2	5488.4	22816.3	37646.3	37853.2	26934.8	23083.0
72.5°	1907.7	1954.3	2264.7	3057.5	3937.8	4153.5	13776.3	32305.1	33100.8	25878.2	19803.9
75°	1075.5	1110.5	1479.2	2305.5	3710.4	3955.3	7276.6	23800.0	24569.5	21640.2	15271.6
77.5°	527.6	546.5	836.5	1488.0	3102.7	3768.7	4127.2	16166.4	17045.2	14124.6	8637.7
80°	223.0	233.2	418.3	918.1	2218.1	3596.7	3064.8	9949.3	10058.6	5533.6	2301.2
82.5°	86.0	88.9	176.3	572.7	1409.3	2803.9	2563.5	4717.4	4603.8	1042.0	524.6
85°	10.2	11.7	64.1	343.9	784.1	1442.8	2082.6	2033.0	1881.4	206.9	269.6
87.5°	0.0	0.0	4.4	104.9	233.2	676.2	1082.8	843.8	760.7	67.0	139.9
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°	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3	8703.3
2.5°	8681.4	8666.9	8588.2	8474.5	8366.7	8232.6	8104.3	8027.1	7965.9	7925.1	7973.2
5°	8704.8	8640.6	8401.6	8095.6	7795.4	7457.3	7142.5	6875.8	6770.9	6654.3	6706.7
7.5°	8697.5	8576.5	8146.6	7601.5	7050.7	6480.8	5941.6	5526.3	5310.6	5099.3	5153.2
10°	8661.0	8457.0	7805.6	6998.2	6173.3	5354.3	4589.2	4007.7	3682.7	3388.3	3430.6
12.5°	8580.9	8296.7	7403.3	6307.4	5204.2	4124.3	3228.0	2483.3	2084.0	1907.7	1929.5
15°	8532.8	8140.8	6977.8	5607.9	4169.5	2872.4	1973.3	1467.6	1285.4	1227.1	1234.4
17.5°	8509.5	7990.7	6537.7	4807.8	3111.4	1829.0	1275.2	1125.1	1085.7	1075.5	1078.4
20°	8486.2	7839.1	6084.4	4016.5	2143.8	1230.0	1047.8	1004.1	989.5	976.4	979.3
22.5°	8446.8	7693.4	5597.7	3214.9	1445.7	998.3	944.4	902.1	871.5	855.5	858.4
25°	8398.7	7540.3	5100.7	2394.4	1055.1	890.4	839.4	779.7	743.2	714.1	715.6
27.5°	8321.5	7352.3	4587.7	1743.0	886.1	797.2	728.7	663.1	601.9	568.4	568.4
30°	8213.6	7139.6	4017.9	1247.5	794.3	705.4	622.3	540.7	475.1	444.5	441.6
32.5°	8094.1	6918.0	3442.3	945.8	721.4	619.4	524.6	438.7	380.4	355.6	354.1
35°	7992.1	6679.0	2868.1	792.8	648.5	536.3	432.8	360.0	313.3	292.9	291.5
37.5°	7926.5	6440.0	2308.4	708.3	582.9	459.1	362.9	297.3	263.8	247.7	246.3
40°	7916.3	6262.2	1796.9	644.1	521.7	390.6	303.1	252.1	221.5	204.0	202.6
42.5°	8049.0	6160.2	1378.7	590.2	459.1	330.8	258.0	215.7	183.6	166.1	164.7
45°	8397.3	6192.3	1061.0	542.1	396.4	279.8	218.6	179.3	150.1	137.0	134.1
47.5°	9032.7	6413.8	843.8	494.0	336.6	237.5	186.5	148.6	123.9	110.8	109.3
50°	10163.6	6934.1	705.4	441.6	281.3	202.6	154.5	121.0	100.6	88.9	87.4
52.5°	11664.6	7861.0	629.6	390.6	233.2	172.0	126.8	96.2	78.7	70.0	68.5
55°	13320.2	8983.1	580.0	335.2	190.9	142.8	100.6	75.8	61.2	53.9	51.0
57.5°	14936.4	9955.2	533.4	281.3	158.9	116.6	80.2	59.8	48.1	40.8	39.3
60°	16421.4	10848.5	479.5	225.9	129.7	91.8	62.7	46.6	37.9	30.6	30.6
62.5°	18011.4	11539.3	405.1	176.3	106.4	70.0	51.0	42.3	30.6	26.2	24.8
65°	19696.1	12052.3	317.7	137.0	83.1	52.5	42.3	43.7	24.8	18.9	17.5
67.5°	20940.7	11950.3	234.6	107.8	64.1	40.8	40.8	46.6	21.9	14.6	13.1
69°	20666.7	11121.0	196.7	93.3	55.4	35.0	37.9	46.6	20.4	13.1	11.7
70°	19872.4	10202.9	173.4	83.1	49.5	32.1	36.4	45.2	18.9	13.1	11.7
72.5°	16549.7	7684.6	135.5	62.7	39.3	26.2	30.6	39.3	18.9	13.1	10.2
75°	12448.7	4918.6	103.5	45.2	29.1	20.4	23.3	29.1	18.9	11.7	10.2
77.5°	6773.8	1773.6	74.3	30.6	20.4	16.0	16.0	21.9	17.5	8.7	5.8
80°	1741.5	445.9	46.6	20.4	16.0	11.7	10.2	14.6	10.2	1.5	0.0
82.5°	429.9	100.6	24.8	14.6	11.7	4.4	4.4	7.3	4.4	0.0	0.0
85°	236.1	49.5	16.0	10.2	5.8	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	121.0	14.6	4.4	2.9	1.5	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)