

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: P323793

Luminaire Tested: **GAN-SA9A-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30793 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

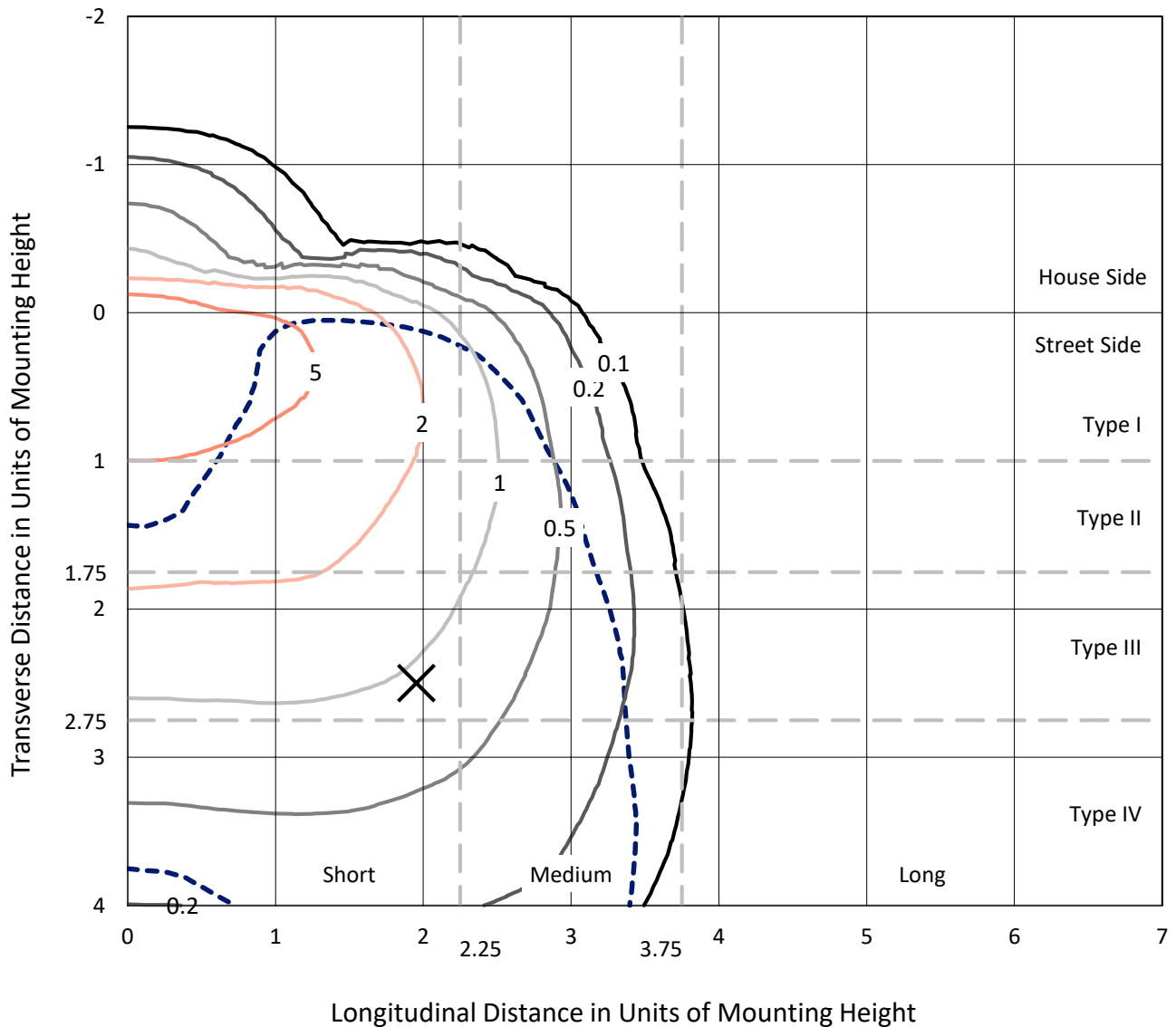
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

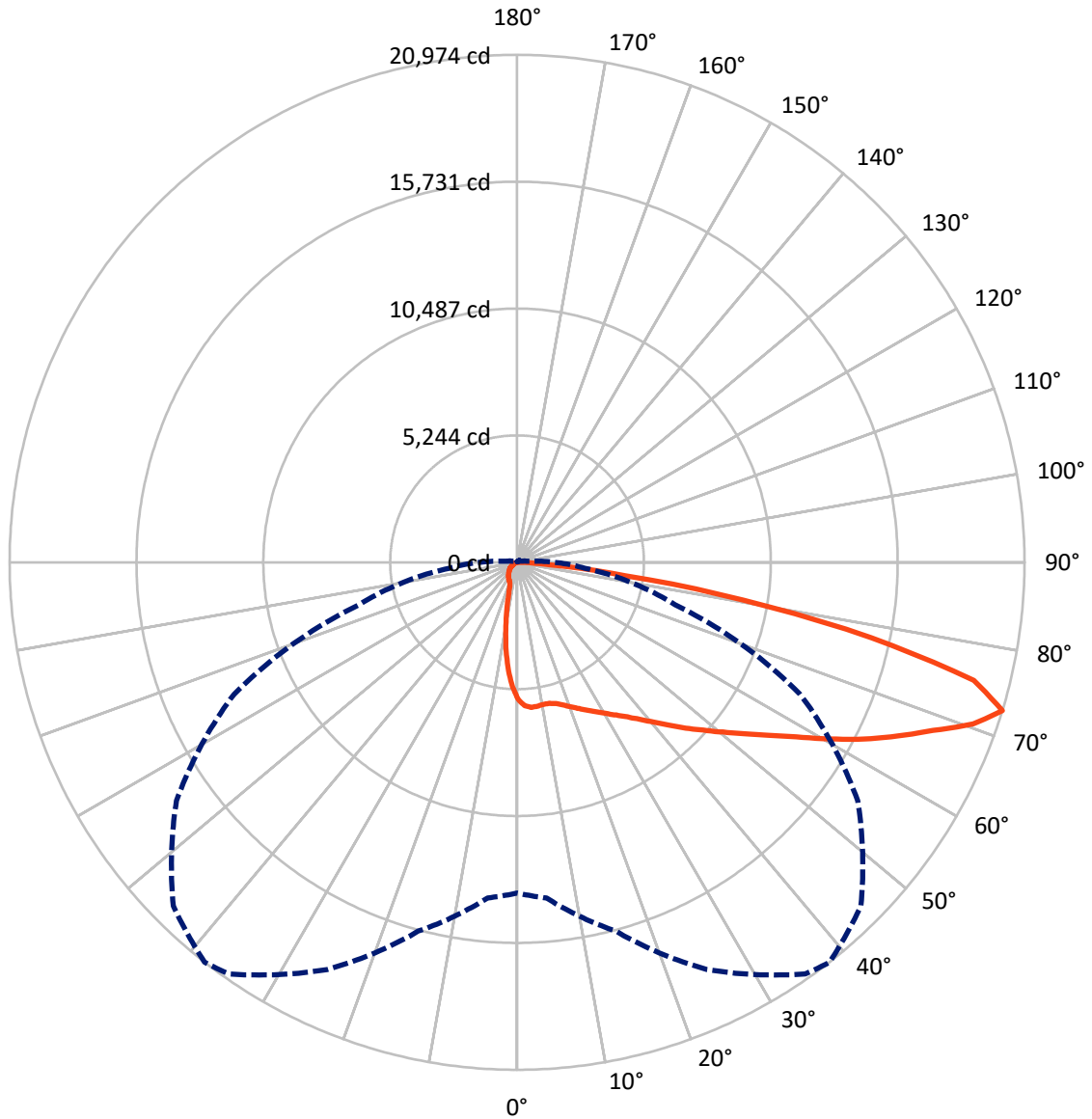
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.4	0.0	2591.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	28201.7	0.0	28201.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	30793.0	0.0	30793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.6	1.6
10°-20°	1180.0	3.8
20°-30°	1876.8	6.1
30°-40°	2821.5	9.2
40°-50°	4304.4	14.0
50°-60°	6083.6	19.8
60°-70°	7630.9	24.8
70°-80°	5705.8	18.5
80°-90°	707.5	2.3
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°	30793.0	100.0
0°-180°	30793.0	100.0

Coefficient of Utilization



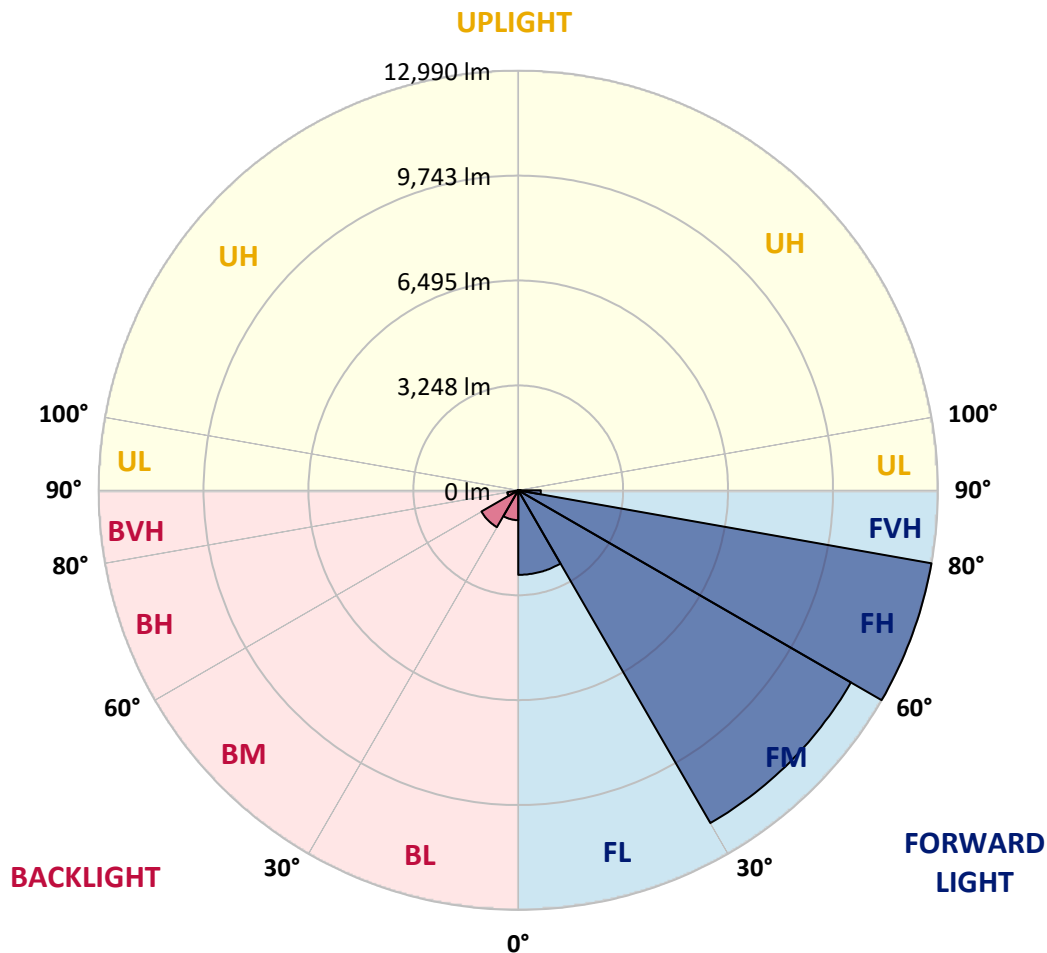
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.7	8.5			
FM (30°-60°)	11893.6	38.6			
FH (60°-80°)	12990.5	42.2			G5
FVH (80°-90°)	700.9	2.3			G4/750
BL (0°-30°)	922.7	3.0	B2/1000		
BM (30°-60°)	1315.9	4.3	B2/2500		
BH (60°-80°)	346.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7
2.5°	6010.6	6011.9	5997.8	5974.8	5945.4	5930.0	5904.4	5863.5	5820.0	5742.0	5657.6
5°	6133.3	6133.3	6115.4	6084.8	6037.4	6023.4	5974.8	5909.5	5820.0	5693.4	5551.5
7.5°	6120.6	6123.1	6098.8	6066.8	6019.5	6006.7	5947.9	5875.0	5763.8	5610.3	5428.7
10°	6054.1	6060.5	6041.3	6025.9	5982.4	5968.4	5913.4	5840.5	5729.2	5565.5	5357.1
12.5°	5986.3	5992.7	5999.1	6013.1	5986.3	5981.2	5937.7	5876.3	5770.2	5600.1	5364.8
15°	5942.8	5955.6	6001.6	6056.6	6063.0	6057.9	6029.8	5972.2	5864.8	5688.3	5419.8
17.5°	5942.8	5963.3	6059.2	6164.0	6201.1	6205.0	6180.7	6100.1	5972.2	5782.9	5470.9
20°	5992.7	6020.8	6170.4	6318.8	6380.2	6380.2	6332.8	6220.3	6070.7	5868.6	5505.4
22.5°	6120.6	6157.6	6345.6	6517.0	6582.2	6568.2	6504.2	6340.5	6173.0	5965.8	5548.9
25°	6372.5	6400.6	6596.3	6768.9	6808.6	6776.6	6696.0	6486.3	6303.4	6097.5	5628.2
27.5°	6697.3	6701.2	6903.2	7049.0	7024.7	7003.0	6901.9	6669.2	6491.4	6285.5	5765.0
30°	7054.1	7054.1	7231.9	7343.1	7269.0	7251.1	7150.0	6890.4	6731.8	6541.3	5959.4
32.5°	7399.4	7414.8	7559.3	7629.6	7546.5	7528.6	7430.1	7170.5	7051.6	6931.3	6262.5
35°	7733.2	7744.7	7881.5	7919.9	7840.6	7845.7	7775.4	7555.4	7510.7	7495.3	6719.1
37.5°	8056.7	8059.3	8198.7	8223.0	8183.3	8226.8	8233.2	8038.8	8122.0	8246.0	7362.3
40°	8352.1	8354.7	8492.8	8555.5	8623.3	8679.5	8729.4	8625.8	8900.8	9188.5	8128.3
42.5°	8588.7	8615.6	8790.8	8909.7	9088.8	9196.2	9331.7	9326.6	9827.9	10260.2	9054.2
45°	8797.2	8843.2	9087.5	9295.9	9602.9	9774.2	9986.5	10152.8	10871.5	11453.3	9991.6
47.5°	9072.1	9115.6	9394.4	9735.9	10145.1	10370.2	10721.8	11081.2	12018.6	12624.8	10907.3
50°	9459.6	9440.4	9715.4	10205.2	10730.8	11026.2	11527.5	12065.9	13156.8	13645.3	11445.7
52.5°	9872.7	9865.0	10068.4	10715.5	11421.4	11766.7	12429.1	13083.9	14245.1	14348.7	11692.5
55°	10384.2	10329.2	10500.6	11297.3	12241.1	12612.0	13392.1	14091.6	15112.1	14745.1	11816.5
57.5°	10920.1	10829.3	10993.0	11945.7	13165.7	13604.4	14458.6	15073.8	15688.9	15016.2	11815.3
60°	11473.8	11366.4	11560.8	12756.5	14314.1	14821.8	15614.7	15737.5	16227.3	15153.0	11728.3
62.5°	11936.8	11872.8	12161.8	13623.5	15596.8	16095.6	16488.2	16341.1	16681.3	15259.2	11525.0
65°	12426.5	12430.4	12897.2	14635.1	16960.1	17296.4	17329.6	17123.8	17061.1	15237.5	10836.9
67.5°	13089.0	13150.4	13929.2	16008.6	18286.2	18545.8	18543.3	17971.6	17338.6	14373.0	9311.3
70°	13789.8	13934.3	15118.5	17580.3	19733.9	19997.3	19861.8	18511.3	16325.8	11622.2	6589.9
72.5°	13672.1	13922.8	15779.7	18571.4	20773.6	20974.4	20093.2	17185.1	12903.6	6754.9	2805.8
75°	10547.9	10838.2	14468.9	17589.3	19682.7	19502.4	17264.4	13372.9	7051.6	1885.0	631.8
77.5°	5571.9	5726.7	9558.1	13399.8	15347.4	14970.2	12161.8	7418.6	2149.7	466.8	283.9
80°	2918.3	2954.1	4165.2	7602.7	9472.4	9475.0	7207.6	3258.5	886.2	239.1	190.5
82.5°	1562.8	1593.4	2200.9	3513.0	4963.2	4499.0	2759.8	1792.9	515.4	135.6	182.9
85°	376.0	382.4	1248.2	1605.0	1951.5	1393.9	819.7	1505.2	139.4	79.3	148.3
87.5°	144.5	147.1	462.9	694.4	497.5	322.3	383.7	561.4	17.9	30.7	23.0
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°	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7	5662.7
2.5°	5606.5	5573.2	5491.4	5387.8	5295.7	5229.2	5129.5	5064.2	5020.8	5019.5	5002.8
5°	5464.5	5396.7	5220.3	5010.5	4820.0	4648.6	4446.5	4286.7	4167.8	4148.6	4107.7
7.5°	5312.3	5201.1	4930.0	4602.6	4282.9	3958.0	3580.8	3346.7	3146.0	3050.0	3039.8
10°	5219.0	5063.0	4678.0	4204.8	3703.5	3175.4	2681.7	2340.3	2093.5	2023.1	1970.7
12.5°	5199.8	4993.9	4483.6	3831.4	3115.3	2417.0	1871.0	1507.8	1310.8	1248.2	1231.5
15°	5219.0	4961.9	4319.9	3461.8	2519.3	1714.9	1255.8	1044.8	970.6	952.7	951.5
17.5°	5230.5	4923.6	4134.5	3051.3	1941.3	1225.1	961.7	900.3	888.8	887.5	890.1
20°	5229.2	4864.7	3913.3	2593.5	1443.8	963.0	869.6	856.8	854.3	855.5	854.3
22.5°	5220.3	4795.7	3670.3	2121.6	1090.9	860.7	830.0	822.3	821.0	821.0	821.0
25°	5236.9	4740.7	3403.0	1670.2	899.0	813.3	794.2	787.8	786.5	786.5	783.9
27.5°	5297.0	4710.0	3110.2	1285.2	812.1	771.1	755.8	754.5	750.7	749.4	752.0
30°	5394.2	4710.0	2789.2	1000.1	759.6	727.7	716.2	713.6	712.3	711.0	712.3
32.5°	5565.5	4745.8	2438.8	831.3	709.8	679.1	671.4	675.2	671.4	671.4	671.4
35°	5875.0	4853.2	2071.7	725.1	657.3	631.8	624.1	629.2	626.6	626.6	625.4
37.5°	6326.5	5052.7	1702.1	661.2	611.3	584.4	574.2	581.9	579.3	579.3	578.0
40°	6876.4	5343.0	1350.5	612.6	566.5	538.4	529.4	533.3	526.9	526.9	529.4
42.5°	7555.4	5711.3	1043.5	565.3	521.8	494.9	489.8	486.0	474.5	468.1	469.3
45°	8309.9	6095.0	813.3	519.2	479.6	457.8	450.2	439.9	420.7	408.0	409.2
47.5°	8983.9	6390.4	661.2	474.5	441.2	424.6	413.1	393.9	365.8	350.4	351.7
50°	9338.1	6435.2	562.7	429.7	405.4	388.8	372.1	342.7	309.5	292.9	291.6
52.5°	9428.9	6225.4	489.8	388.8	369.6	350.4	328.7	289.0	251.9	234.0	231.5
55°	9462.2	5905.7	424.6	350.4	331.2	309.5	281.3	236.6	202.1	184.2	182.9
57.5°	9352.2	5428.7	373.4	315.9	292.9	266.0	231.5	189.3	156.0	142.0	142.0
60°	9107.9	4782.9	333.8	278.8	253.2	222.5	186.7	147.1	116.4	104.9	104.9
62.5°	8620.7	3946.5	296.7	240.4	216.1	184.2	150.9	111.3	81.8	75.5	76.7
65°	7701.2	2993.8	259.6	205.9	184.2	152.2	117.7	79.3	55.0	55.0	57.5
67.5°	6280.4	2079.4	221.2	175.2	158.6	124.0	89.5	55.0	38.4	43.5	48.6
70°	4157.5	1166.3	189.3	144.5	135.6	98.5	66.5	37.1	30.7	40.9	49.9
72.5°	1569.1	454.0	158.6	116.4	117.7	75.5	47.3	28.1	28.1	44.8	58.8
75°	437.4	222.5	113.8	85.7	92.1	55.0	34.5	24.3	26.9	51.2	69.1
77.5°	257.0	163.7	74.2	49.9	62.7	38.4	23.0	19.2	23.0	43.5	66.5
80°	207.2	87.0	43.5	25.6	34.5	21.7	15.3	11.5	6.4	16.6	34.5
82.5°	207.2	52.4	20.5	17.9	17.9	11.5	7.7	5.1	1.3	0.0	9.0
85°	139.4	21.7	12.8	11.5	9.0	3.8	2.6	1.3	0.0	0.0	0.0
87.5°	23.0	9.0	5.1	2.6	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)