

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: P322542

Luminaire Tested: **GAN-SA8D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40216 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

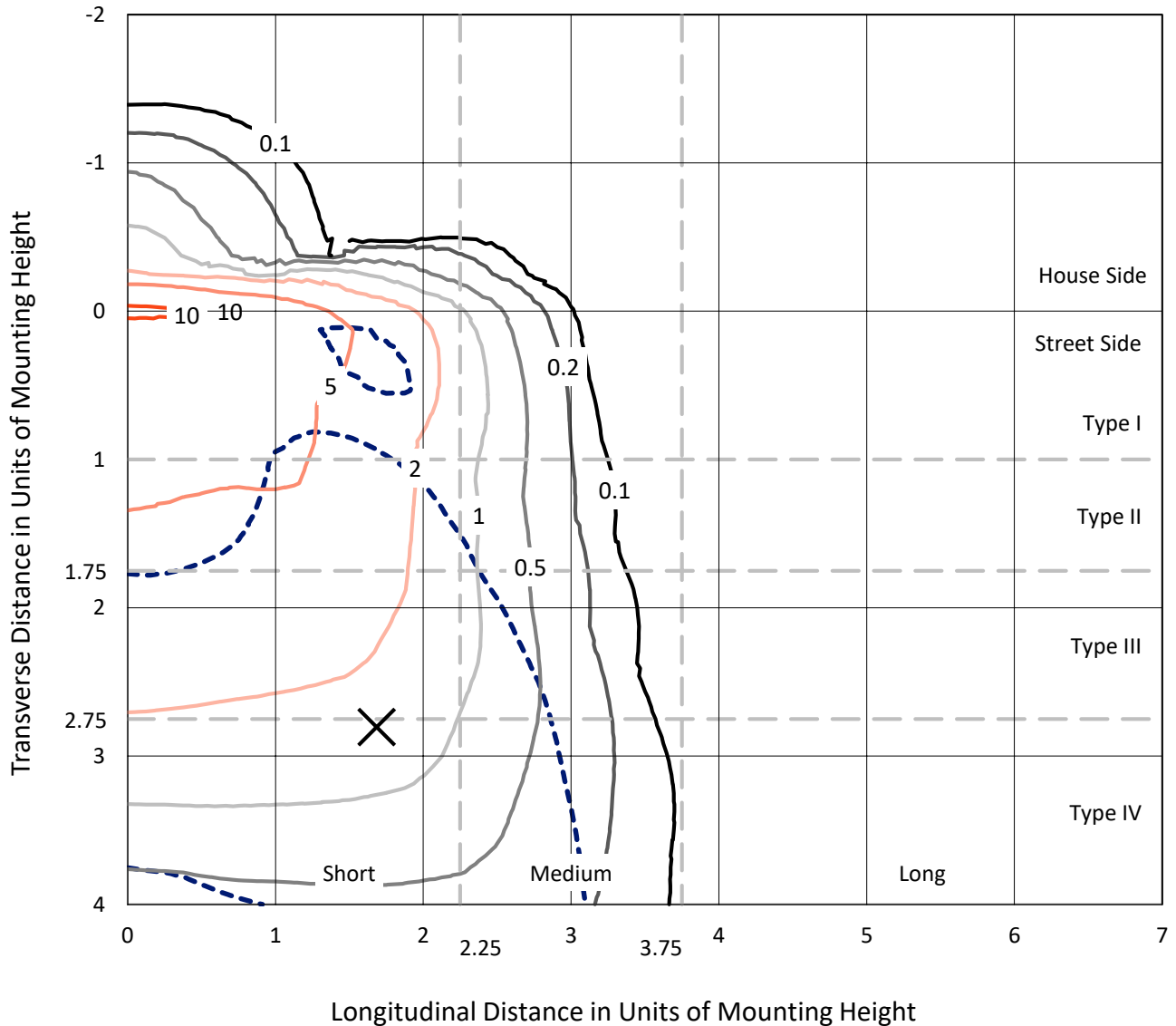
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

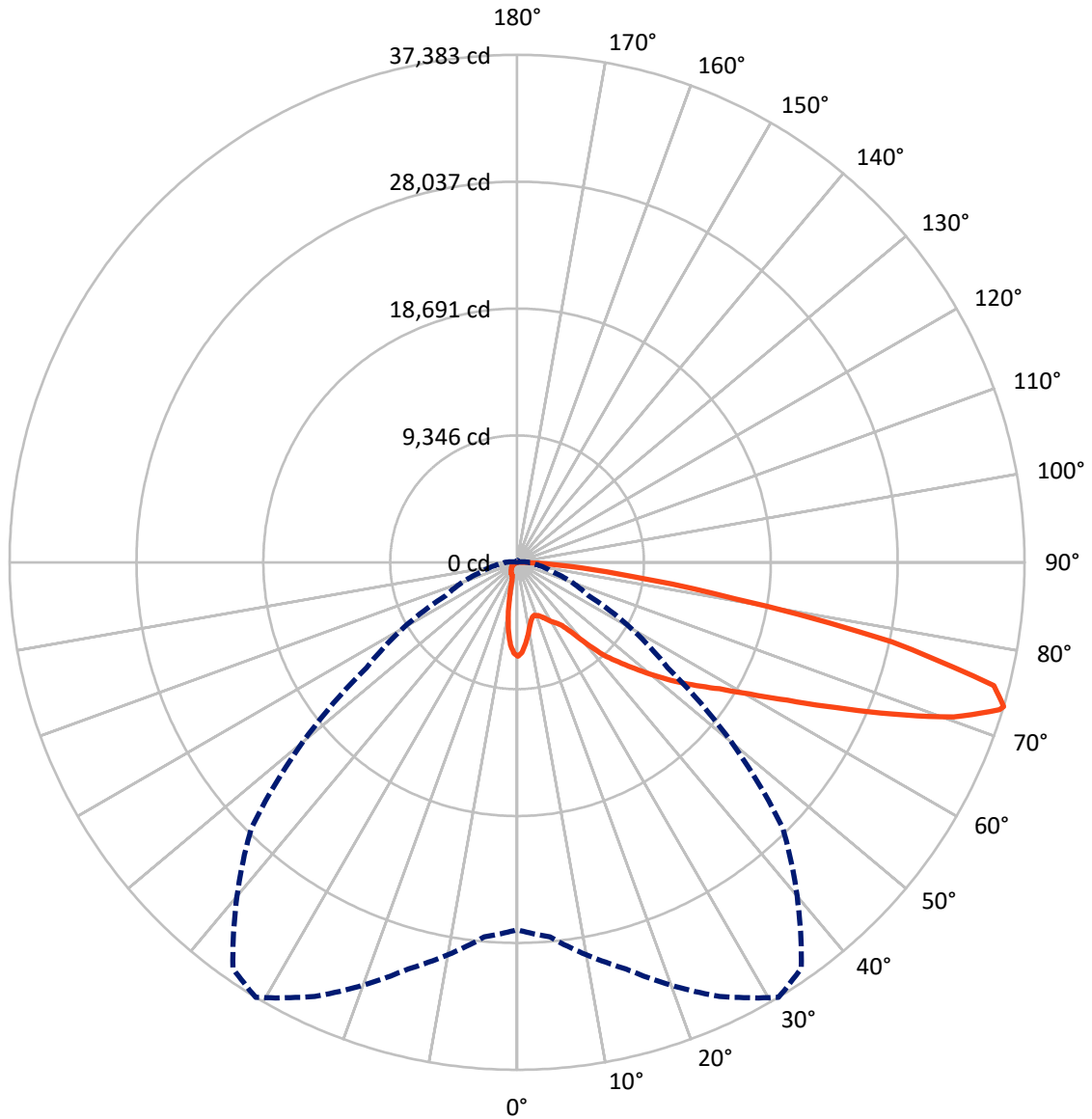
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3665.8	0.0	3665.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	36550.2	0.0	36550.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	40216.0	0.0	40216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.7	1.4
10°-20°	1245.7	3.1
20°-30°	1866.4	4.6
30°-40°	2969.4	7.4
40°-50°	5302.6	13.2
50°-60°	8228.0	20.5
60°-70°	10938.1	27.2
70°-80°	8227.6	20.5
80°-90°	864.5	2.1
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°	40216.0	100.0
0°-180°	40216.0	100.0

Coefficient of Utilization

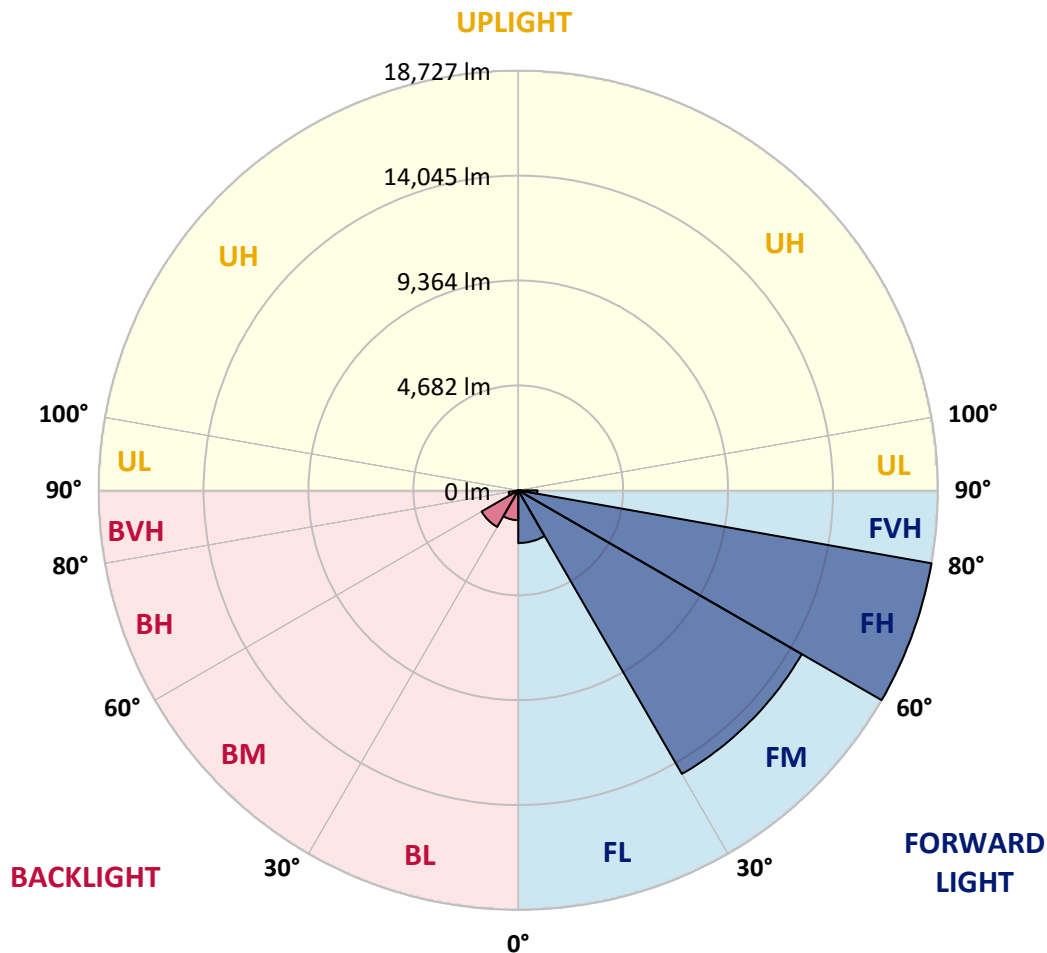


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.7	5.9			
FM (30°-60°)	14613.1	36.3			
FH (60°-80°)	18727.1	46.6			G5
FVH (80°-90°)	857.3	2.1			G5
BL (0°-30°)	1333.1	3.3	B3/2500		
BM (30°-60°)	1886.9	4.7	B2/2500		
BH (60°-80°)	438.6	1.1	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2
2.5°	6557.1	6584.7	6614.2	6620.1	6669.3	6671.3	6742.1	6795.3	6848.4	6899.6	6917.3
5°	5884.1	5929.4	5982.5	6035.6	6139.9	6181.3	6354.4	6531.6	6700.8	6862.2	6940.9
7.5°	5165.8	5217.0	5291.8	5423.6	5539.7	5620.4	5894.0	6208.8	6523.7	6820.8	6992.1
10°	4510.5	4557.7	4636.4	4776.2	4955.3	5065.5	5433.5	5870.3	6332.8	6783.5	7068.8
12.5°	4093.3	4118.9	4162.2	4311.7	4473.1	4597.1	5030.0	5571.2	6175.4	6781.5	7192.8
15°	4016.5	4024.4	3989.0	4055.9	4181.9	4301.9	4740.7	5329.2	6055.3	6813.0	7354.2
17.5°	4138.6	4134.6	4016.5	4008.7	4109.0	4207.4	4599.1	5161.9	5970.7	6885.8	7562.8
20°	4323.5	4309.8	4105.1	4067.7	4174.0	4266.5	4589.2	5098.9	5939.2	7007.8	7816.6
22.5°	4569.5	4545.9	4225.1	4185.8	4299.9	4396.4	4711.2	5159.9	5966.8	7171.1	8111.8
25°	4874.6	4839.1	4431.8	4388.5	4504.6	4601.0	4929.7	5335.1	6049.4	7369.9	8485.7
27.5°	5219.0	5167.8	4762.4	4650.2	4782.1	4882.4	5220.9	5602.7	6179.3	7580.5	8944.2
30°	5543.7	5476.8	5110.7	4925.7	5087.1	5199.3	5535.8	5921.5	6387.9	7905.2	9572.0
32.5°	5870.3	5795.6	5421.6	5201.2	5346.9	5468.9	5860.5	6360.4	6779.5	8401.1	10406.4
35°	6622.1	6543.4	6084.8	5720.8	5718.8	5787.7	6315.1	6960.6	7297.1	9091.8	11402.2
37.5°	7887.5	7842.2	7405.3	6714.6	6529.6	6452.8	6935.0	7676.9	8041.0	10042.4	12525.9
40°	9272.9	9233.5	8743.5	8117.7	7836.3	7647.4	7824.5	8674.6	9091.8	11203.4	13673.2
42.5°	10837.4	10650.4	9776.7	9589.7	9337.8	9194.2	9034.8	9904.6	10382.8	12466.8	14810.6
45°	12258.2	11943.4	10809.8	10526.5	10469.4	10504.8	10593.4	11557.7	11835.1	13968.4	15944.2
47.5°	13104.5	12856.5	11986.7	11715.1	11699.3	11933.5	12602.6	13425.2	13281.6	15277.0	16941.9
50°	13909.3	13685.0	12962.8	13029.7	13102.5	13421.3	14883.5	15345.9	14602.0	16463.7	17857.0
52.5°	14560.7	14218.3	13840.5	14216.3	14574.5	15088.1	17237.1	17069.8	15538.8	17408.3	18640.2
55°	14936.6	14781.1	14964.1	15342.0	16015.0	16849.4	19458.9	18504.5	16223.6	18270.3	19161.7
57.5°	16314.1	16009.1	16373.2	16699.9	17577.6	18744.5	21361.9	19573.0	16717.6	18803.6	19281.8
60°	17981.0	17735.0	17949.5	18492.6	19677.3	21049.0	23140.9	20444.8	16975.4	19146.0	18970.9
62.5°	20633.8	20309.0	20175.2	20783.3	22353.7	23851.3	24490.9	21049.0	16918.3	18994.5	17904.2
65°	24187.8	23851.3	23253.1	23804.1	25801.5	26858.3	26000.3	21176.9	16524.7	17768.4	15208.2
67.5°	27828.5	27584.5	27072.8	28001.7	29804.3	30144.8	27596.3	20866.0	15257.4	14407.2	10744.9
70°	30233.3	30129.0	30461.6	32516.1	34123.9	34025.5	29060.4	19195.2	11892.2	8859.6	5315.4
72.5°	28499.6	28999.4	31455.4	35180.7	37144.7	36341.8	28308.7	14739.8	6797.2	3408.5	1537.0
73°	27063.0	27702.6	31008.7	35281.1	37382.8	36503.2	27677.0	13529.5	5793.6	2690.2	1165.0
75°	18827.2	19612.4	25671.7	32858.5	36269.0	34779.2	23070.1	8281.1	2684.3	1192.6	470.3
77.5°	9141.0	9721.6	14135.6	23741.1	28206.4	27173.2	14362.0	3085.7	1212.2	745.8	216.5
80°	3412.4	3794.2	6136.0	12083.1	16300.4	16727.4	6317.1	1167.0	806.9	600.2	110.2
82.5°	893.4	995.8	2263.1	5388.2	8353.9	8743.5	1991.5	588.4	590.4	494.0	66.9
85°	285.3	326.7	706.5	2418.6	3935.9	3455.7	519.5	285.3	429.0	368.0	37.4
87.5°	35.4	45.3	224.3	568.7	867.9	482.1	80.7	84.6	183.0	204.7	21.6
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°	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2	6919.2
2.5°	6935.0	6925.1	6927.1	6876.0	6842.5	6775.6	6706.7	6675.2	6641.8	6628.0	6641.8
5°	6970.4	6952.7	6901.5	6744.1	6576.8	6360.4	6157.7	6004.2	5811.3	5758.2	5813.3
7.5°	7025.5	6990.1	6840.5	6519.8	6147.8	5734.6	5270.1	4931.6	4654.2	4475.1	4540.0
10°	7106.2	7039.3	6738.2	6193.1	5527.9	4795.8	4136.6	3623.0	3258.9	3109.3	3103.4
12.5°	7242.0	7116.0	6612.2	5768.0	4770.3	3794.2	2930.2	2373.3	2078.1	1887.2	1883.3
15°	7391.5	7206.6	6452.8	5258.3	3888.6	2717.7	1887.2	1464.1	1273.3	1212.2	1204.4
17.5°	7574.6	7310.9	6246.2	4630.5	2965.7	1800.7	1231.9	1109.9	1102.0	1096.1	1096.1
20°	7804.8	7434.8	5980.5	3912.2	2103.7	1202.4	1046.9	1054.8	1058.7	1050.9	1052.8
22.5°	8072.5	7560.8	5663.7	3140.8	1422.8	1005.6	1001.7	1011.5	1015.5	1011.5	1013.5
25°	8383.4	7706.4	5278.0	2332.0	1027.3	954.4	964.3	978.1	987.9	987.9	987.9
27.5°	8769.1	7883.5	4813.6	1627.5	887.5	901.3	928.9	954.4	968.2	972.2	972.2
30°	9270.9	8103.9	4256.6	1115.8	806.9	830.5	881.6	930.8	956.4	960.4	962.3
32.5°	9904.6	8351.9	3611.2	824.6	738.0	755.7	810.8	893.4	942.6	950.5	950.5
35°	10630.8	8639.2	2916.5	718.3	688.8	694.7	738.0	832.4	919.0	940.7	942.6
37.5°	11425.8	8922.6	2217.9	671.1	647.4	647.4	678.9	759.6	862.0	928.9	936.7
40°	12167.7	9093.8	1554.7	633.7	610.1	610.1	637.6	696.6	793.1	893.4	915.1
42.5°	12852.6	9152.8	1082.4	598.3	574.6	580.5	604.2	651.4	724.2	824.6	844.2
45°	13557.1	9143.0	789.1	556.9	539.2	556.9	574.6	610.1	663.2	720.3	724.2
47.5°	14088.4	9060.4	625.8	517.6	505.8	529.4	545.1	568.7	598.3	594.3	594.3
50°	14586.3	8859.6	503.8	464.4	472.3	499.9	507.7	515.6	517.6	480.2	476.2
52.5°	14964.1	8546.7	403.4	407.4	438.8	466.4	458.5	446.7	427.0	381.8	373.9
55°	15090.1	7944.5	316.8	336.5	389.7	425.1	395.6	370.0	332.6	295.2	287.3
57.5°	14861.8	7167.2	257.8	261.7	328.6	358.2	324.7	295.2	253.9	222.4	216.5
60°	14377.7	6303.3	212.5	196.8	253.9	279.4	257.8	228.3	190.9	167.3	165.3
62.5°	13417.4	5382.3	175.1	153.5	192.9	214.5	200.7	179.1	147.6	131.9	129.9
65°	11398.3	4305.8	141.7	124.0	149.6	167.3	155.5	139.7	116.1	104.3	102.3
67.5°	7956.3	2910.6	116.1	102.3	118.1	131.9	122.0	114.1	92.5	90.5	92.5
70°	3837.5	1403.1	96.4	82.7	92.5	102.3	98.4	92.5	88.6	102.3	118.1
72.5°	1100.1	470.3	76.7	68.9	74.8	80.7	84.6	82.7	96.4	124.0	143.7
73°	846.2	379.8	72.8	64.9	70.8	78.7	82.7	80.7	98.4	125.9	143.7
75°	362.1	183.0	55.1	53.1	59.0	68.9	72.8	72.8	98.4	127.9	137.8
77.5°	163.3	98.4	35.4	41.3	51.2	55.1	61.0	61.0	78.7	98.4	98.4
80°	92.5	53.1	27.6	31.5	37.4	37.4	37.4	33.5	35.4	39.4	43.3
82.5°	59.0	35.4	21.6	25.6	23.6	19.7	15.7	15.7	13.8	15.7	19.7
85°	33.5	19.7	19.7	15.7	9.8	7.9	9.8	7.9	2.0	0.0	2.0
87.5°	19.7	11.8	5.9	0.0	0.0	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)