

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: McGRAW-EDISON

Report Number: P383490

Luminaire Tested: **GLEON-SA7D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383490
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: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 36306.1 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

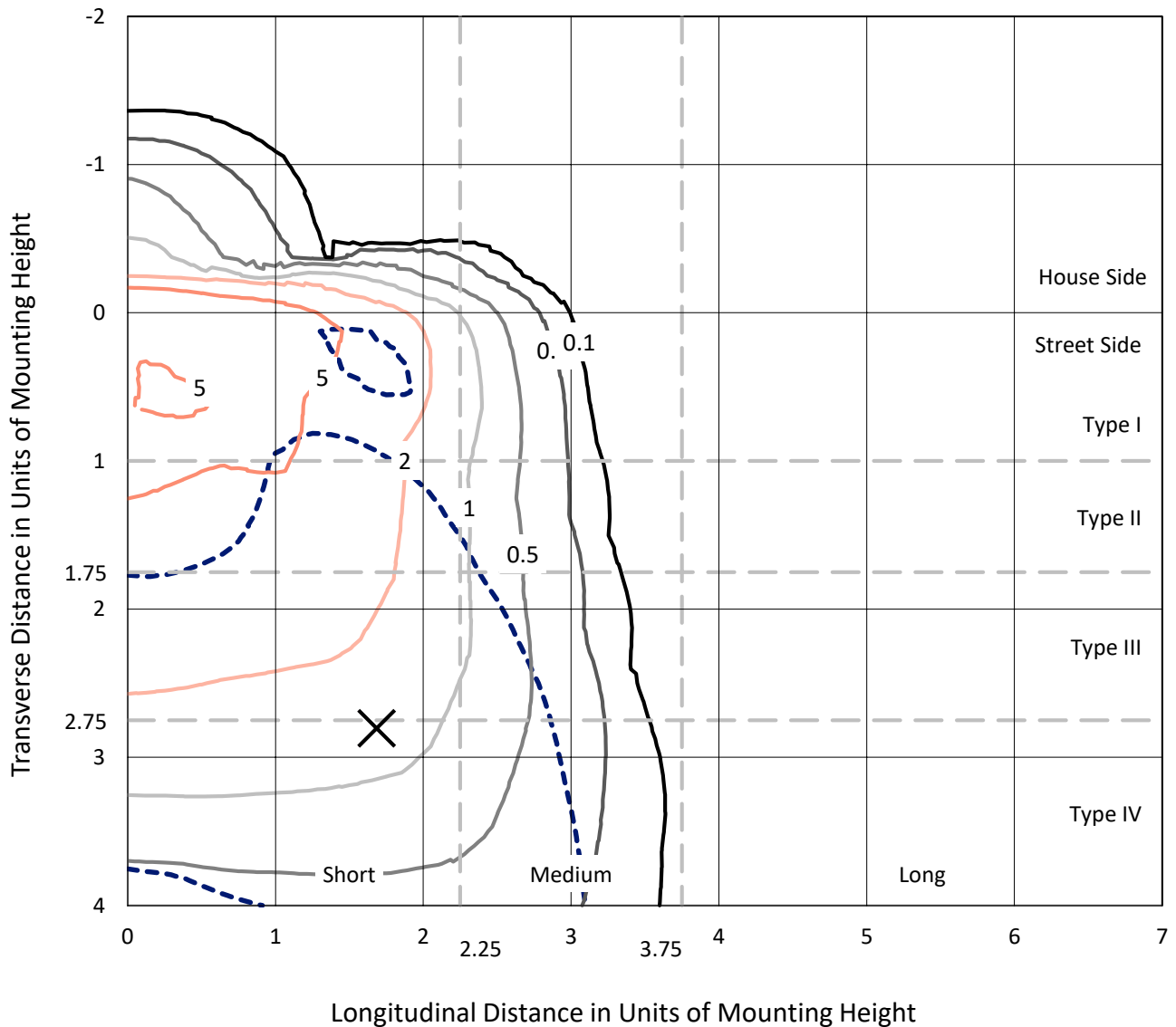
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

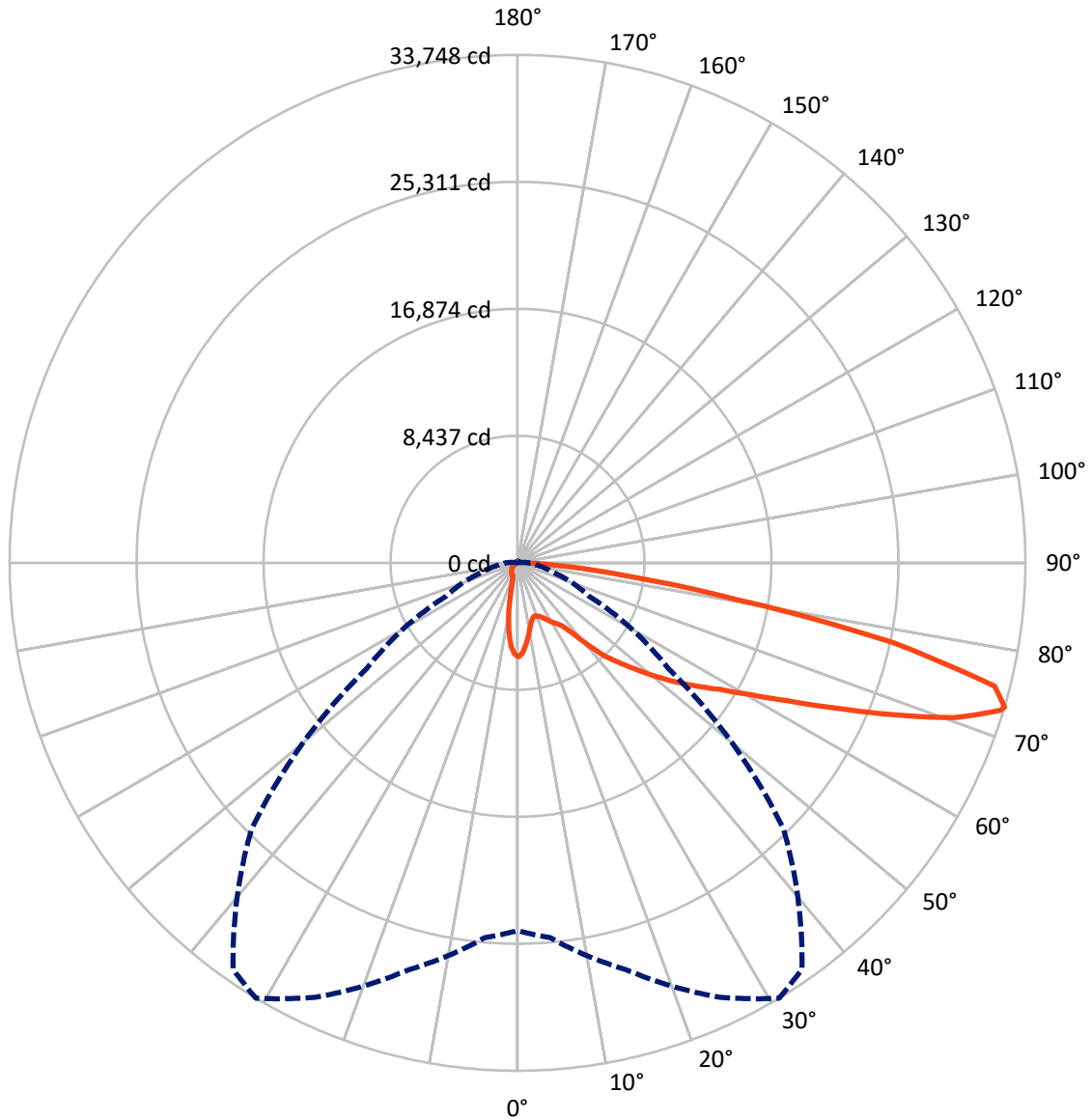
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3309.5	0.0	3309.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	32996.7	0.0	32996.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	36306.1	0.0	36306.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.9	1.4
10°-20°	1124.6	3.1
20°-30°	1684.9	4.6
30°-40°	2680.7	7.4
40°-50°	4787.0	13.2
50°-60°	7428.1	20.5
60°-70°	9874.6	27.2
70°-80°	7427.7	20.5
80°-90°	780.5	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°	36306.1	100.0
0°-180°	36306.1	100.0



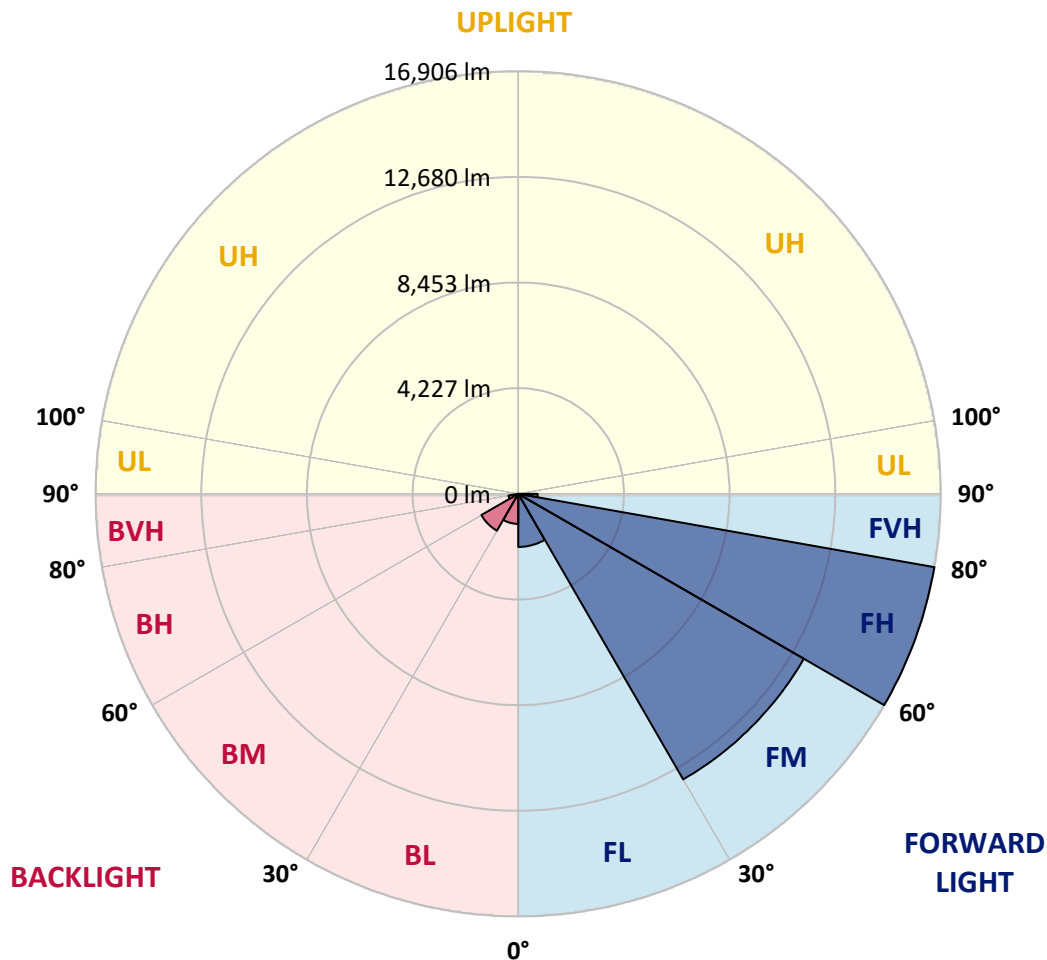
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.0	5.9			
FM (30°-60°)	13192.4	36.3			
FH (60°-80°)	16906.4	46.6			G5
FVH (80°-90°)	773.9	2.1			G5
BL (0°-30°)	1203.5	3.3	B3/2500		
BM (30°-60°)	1703.5	4.7	B2/2500		
BH (60°-80°)	396.0	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: 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°	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6
2.5°	5919.6	5944.5	5971.1	5976.5	6020.9	6022.7	6086.6	6134.6	6182.6	6228.8	6244.7
5°	5312.1	5353.0	5400.9	5448.8	5543.0	5580.3	5736.7	5896.5	6049.4	6195.0	6266.1
7.5°	4663.6	4709.8	4777.3	4896.3	5001.1	5074.0	5320.9	5605.2	5889.4	6157.7	6312.3
10°	4072.0	4114.6	4185.7	4311.9	4473.5	4573.0	4905.3	5299.6	5717.1	6124.0	6381.6
12.5°	3695.4	3718.5	3757.5	3892.6	4038.3	4150.1	4541.0	5029.6	5575.0	6122.2	6493.5
15°	3626.0	3633.1	3601.2	3661.5	3775.3	3883.6	4279.8	4811.1	5466.6	6150.6	6639.1
17.5°	3736.2	3732.6	3626.0	3619.0	3709.5	3798.4	4151.9	4660.1	5390.2	6216.3	6827.5
20°	3903.2	3890.8	3706.0	3672.3	3768.2	3851.7	4143.1	4603.1	5361.8	6326.5	7056.7
22.5°	4125.3	4103.9	3814.4	3778.8	3881.9	3969.0	4253.2	4658.3	5386.7	6474.0	7323.2
25°	4400.6	4368.7	4000.9	3961.9	4066.7	4153.7	4450.4	4816.4	5461.3	6653.4	7660.8
27.5°	4711.6	4665.4	4299.4	4198.1	4317.2	4407.8	4713.4	5058.0	5578.6	6843.5	8074.7
30°	5004.7	4944.3	4613.9	4446.8	4592.5	4693.8	4997.6	5345.8	5766.8	7136.6	8641.4
32.5°	5299.6	5232.1	4894.5	4695.6	4827.0	4937.2	5290.7	5742.0	6120.4	7584.3	9394.7
35°	5978.3	5907.2	5493.2	5164.6	5162.8	5225.0	5701.2	6283.8	6587.6	8208.0	10293.7
37.5°	7120.7	7079.8	6685.3	6061.8	5894.7	5825.5	6260.7	6930.5	7259.2	9066.0	11308.1
40°	8371.4	8335.9	7893.5	7328.5	7074.5	6903.9	7063.7	7831.2	8208.0	10114.2	12343.8
42.5°	9783.8	9615.0	8826.1	8657.4	8429.9	8300.3	8156.4	8941.6	9373.3	11254.8	13370.7
45°	11066.5	10782.2	9758.9	9503.1	9451.6	9483.5	9563.5	10434.0	10684.5	12610.4	14394.1
47.5°	11830.4	11606.5	10821.3	10576.1	10561.9	10773.3	11377.4	12120.0	11990.3	13791.7	15294.8
50°	12557.1	12354.6	11702.5	11762.9	11828.6	12116.5	13436.5	13854.0	13182.4	14863.1	16120.9
52.5°	13145.1	12836.0	12494.8	12834.2	13157.6	13621.3	15561.3	15410.3	14028.1	15715.9	16828.0
55°	13484.4	13344.0	13509.3	13850.4	14458.0	15211.3	17567.0	16705.4	14646.4	16494.0	17298.8
57.5°	14728.0	14452.7	14781.3	15076.3	15868.6	16922.2	19285.1	17670.2	15092.3	16975.5	17407.2
60°	16232.9	16010.8	16204.5	16694.7	17764.2	19002.5	20891.1	18457.1	15325.0	17284.6	17126.5
62.5°	18627.7	18334.5	18213.8	18762.8	20180.5	21532.4	22109.8	19002.5	15273.5	17147.8	16163.6
65°	21836.2	21532.4	20992.3	21489.8	23293.1	24247.1	23472.5	19118.1	14918.2	16041.0	13729.6
67.5°	25123.0	24902.7	24440.7	25279.3	26906.7	27214.0	24913.3	18837.4	13774.0	13006.5	9700.3
70°	27294.0	27199.8	27500.1	29354.8	30806.4	30717.5	26235.2	17329.0	10736.0	7998.3	4798.6
72.5°	25728.8	26180.0	28397.3	31760.4	33533.4	32808.5	25556.4	13306.8	6136.4	3077.1	1387.5
73°	24431.9	25009.3	27993.9	31851.0	33748.4	32954.2	24986.2	12214.2	5230.4	2428.6	1051.7
75°	16996.8	17705.6	23175.8	29664.0	32742.9	31397.9	20827.2	7475.9	2423.3	1076.6	424.6
77.5°	8252.3	8776.4	12761.4	21433.0	25464.1	24531.4	12965.7	2785.7	1094.4	673.3	195.4
80°	3080.6	3425.3	5539.4	10908.3	14715.7	15101.1	5702.9	1053.5	728.4	541.9	99.5
82.5°	806.5	898.9	2043.1	4864.4	7541.7	7893.5	1797.9	531.2	532.9	445.9	60.4
85°	257.6	294.9	637.8	2183.5	3553.2	3119.8	469.0	257.6	387.3	332.2	33.7
87.5°	32.0	40.9	202.5	513.5	783.5	435.3	72.8	76.4	165.3	184.7	19.6
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°	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6
2.5°	6260.7	6251.9	6253.7	6207.5	6177.3	6116.8	6054.7	6026.3	5996.0	5983.6	5996.0
5°	6292.7	6276.8	6230.6	6088.4	5937.4	5742.0	5559.0	5420.4	5246.3	5198.3	5248.1
7.5°	6342.4	6310.5	6175.5	5885.9	5550.2	5177.0	4757.8	4452.1	4201.7	4040.0	4098.6
10°	6415.3	6354.9	6083.1	5591.0	4990.5	4329.6	3734.4	3270.8	2942.0	2807.0	2801.7
12.5°	6537.9	6424.2	5969.4	5207.3	4306.5	3425.3	2645.4	2142.6	1876.1	1703.8	1700.2
15°	6673.0	6505.9	5825.5	4747.1	3510.5	2453.5	1703.8	1321.8	1149.4	1094.4	1087.3
17.5°	6838.1	6600.1	5638.9	4180.3	2677.4	1625.6	1112.2	1002.0	994.9	989.6	989.6
20°	7046.0	6712.0	5399.1	3531.9	1899.1	1085.5	945.1	952.2	955.8	948.7	950.5
22.5°	7287.6	6825.7	5113.1	2835.4	1284.5	907.9	904.3	913.2	916.7	913.2	915.0
25°	7568.4	6957.2	4764.9	2105.3	927.4	861.7	870.5	883.0	891.9	891.9	891.9
27.5°	7916.6	7117.1	4345.6	1469.2	801.2	813.7	838.6	861.7	874.1	877.6	877.6
30°	8369.6	7316.1	3842.8	1007.4	728.4	749.7	795.9	840.3	863.5	867.0	868.8
32.5°	8941.6	7539.9	3260.0	744.4	666.2	682.2	731.9	806.5	851.0	858.1	858.1
35°	9597.3	7799.3	2632.9	648.5	621.8	627.1	666.2	751.5	829.6	849.2	851.0
37.5°	10314.9	8055.1	2002.3	605.8	584.5	584.5	613.0	685.8	778.1	838.6	845.7
40°	10984.7	8209.7	1403.6	572.1	550.7	550.7	575.6	628.9	716.0	806.5	826.1
42.5°	11603.0	8263.0	977.1	540.1	518.8	524.1	545.4	588.1	653.8	744.4	762.2
45°	12239.0	8254.1	712.4	502.8	486.8	502.8	518.8	550.7	598.7	650.2	653.8
47.5°	12718.7	8179.5	565.0	467.3	456.6	477.9	492.1	513.5	540.1	536.6	536.6
50°	13168.2	7998.3	454.8	419.3	426.4	451.2	458.3	465.5	467.3	433.4	429.9
52.5°	13509.3	7715.8	364.2	367.8	396.2	421.1	414.0	403.3	385.6	344.7	337.6
55°	13623.0	7172.2	286.1	303.8	351.8	383.7	357.1	334.0	300.2	266.5	259.3
57.5°	13416.9	6470.4	232.7	236.3	296.7	323.3	293.2	266.5	229.2	200.7	195.4
60°	12979.9	5690.5	191.9	177.6	229.2	252.3	232.7	206.1	172.3	151.0	149.2
62.5°	12112.9	4859.0	158.1	138.6	174.1	193.7	181.2	161.7	133.2	119.1	117.3
65°	10290.1	3887.3	127.9	112.0	135.0	151.0	140.4	126.1	104.8	94.2	92.4
67.5°	7182.8	2627.6	104.8	92.4	106.6	119.1	110.1	103.0	83.5	81.7	83.5
70°	3464.4	1266.7	87.1	74.6	83.5	92.4	88.9	83.5	79.9	92.4	106.6
72.5°	993.1	424.6	69.3	62.2	67.5	72.8	76.4	74.6	87.1	112.0	129.7
73°	764.0	342.9	65.8	58.6	64.0	71.1	74.6	72.8	88.9	113.7	129.7
75°	326.9	165.3	49.7	48.0	53.3	62.2	65.8	65.8	88.9	115.5	124.4
77.5°	147.5	88.9	32.0	37.4	46.2	49.7	55.1	55.1	71.1	88.9	88.9
80°	83.5	48.0	24.9	28.4	33.7	33.7	33.7	30.2	32.0	35.5	39.1
82.5°	53.3	32.0	19.6	23.1	21.3	17.8	14.3	14.3	12.5	14.3	17.8
85°	30.2	17.8	17.8	14.3	8.8	7.1	8.8	7.1	1.8	0.0	1.8
87.5°	17.8	10.6	5.3	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)