

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: P192017

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL4-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA 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: 43189 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 501
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: 25 FT

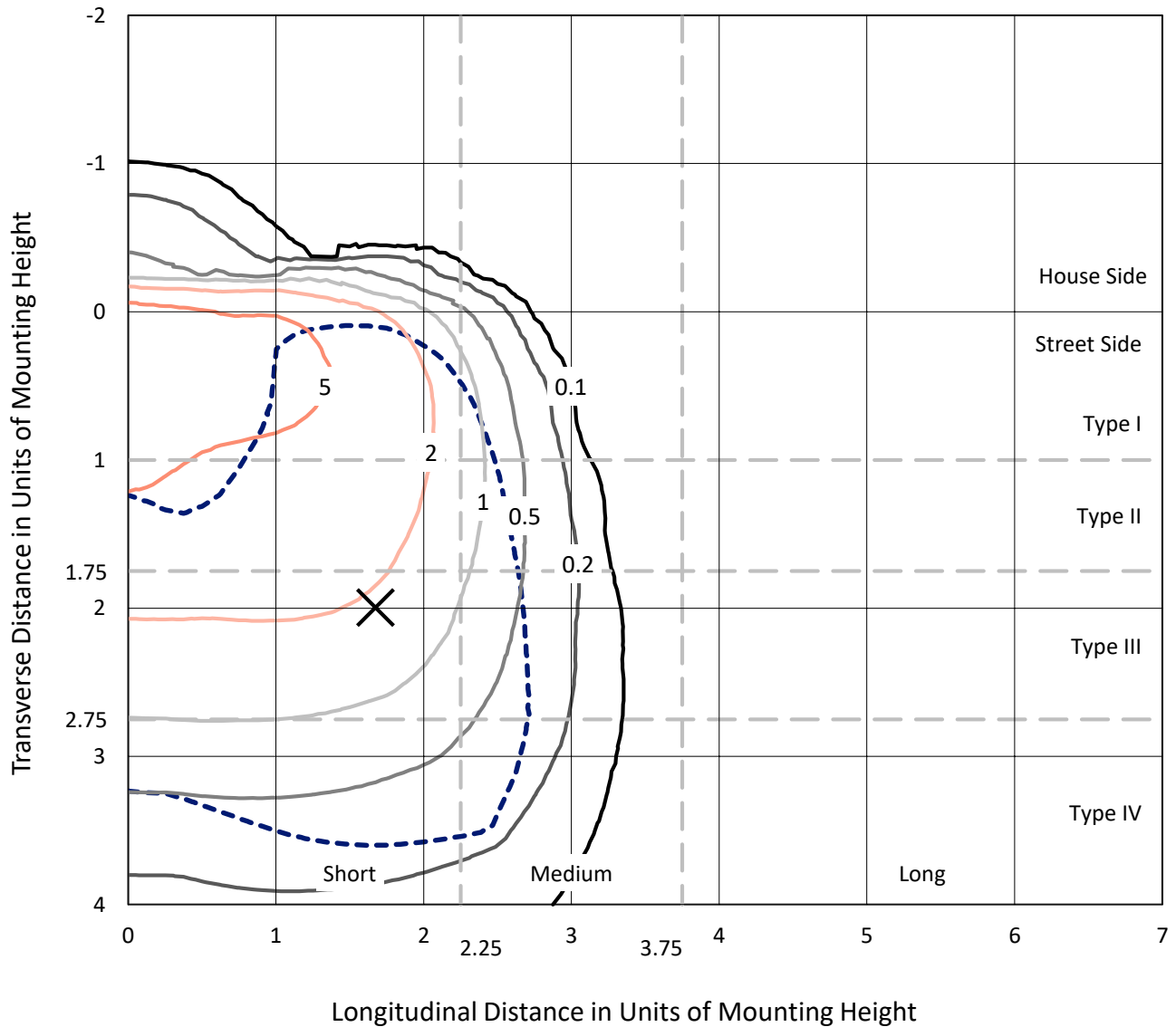


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

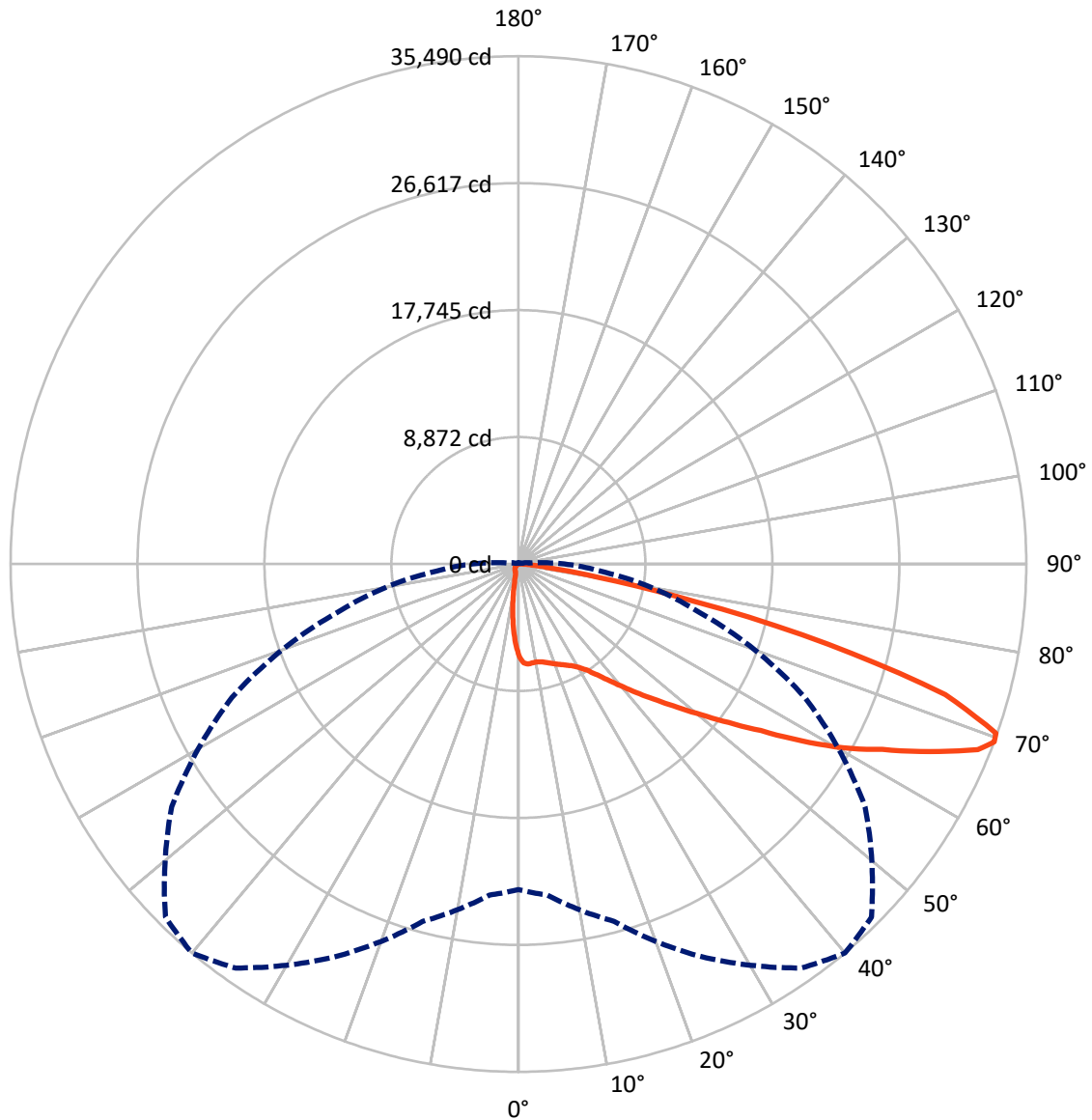


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2526.8	0.0	2526.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	40662.2	0.0	40662.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	43189.0	0.0	43189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.2	1.2
10°-20°	1286.6	3.0
20°-30°	2167.1	5.0
30°-40°	3547.6	8.2
40°-50°	6142.5	14.2
50°-60°	9675.1	22.4
60°-70°	12635.3	29.3
70°-80°	6507.7	15.1
80°-90°	703.9	1.6
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°	43189.0	100.0
0°-180°	43189.0	100.0

Coefficient of Utilization



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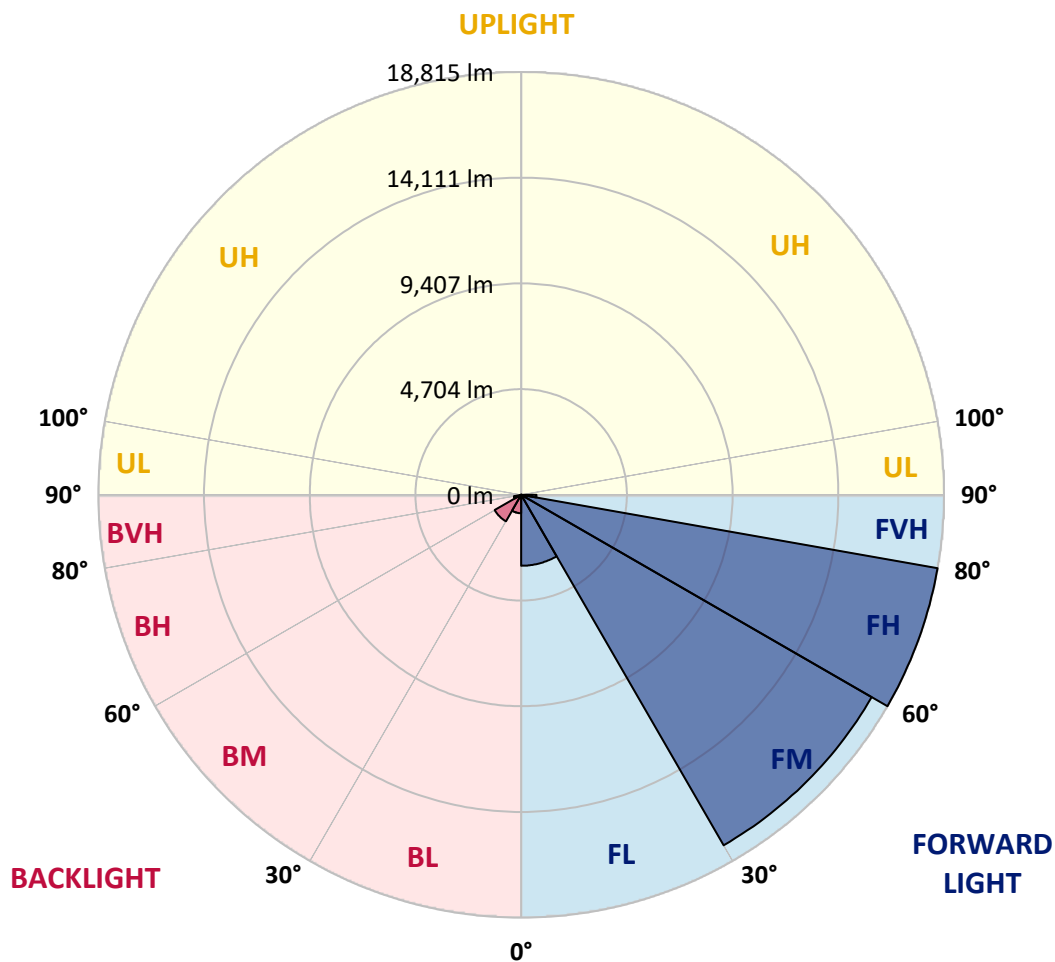
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3158.3	7.3			
FM	(30°-60°)	18007.1	41.7			
FH	(60°-80°)	18814.9	43.6			G5
FVH	(80°-90°)	681.8	1.6			G4/750
BL	(0°-30°)	818.5	1.9	B2/1000		
BM	(30°-60°)	1358.1	3.1	B2/2500		
BH	(60°-80°)	328.1	0.8	B1/500		G1/500
BVH	(80°-90°)	22.1	0.1			G1/100
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°	40°	45°	55°	65°	75°	85°
0°	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7
2.5°	7085.1	7046.5	7023.4	6992.5	6954.0	6920.5	6907.7	6812.6	6722.6	6599.2	6457.8
5°	7216.2	7203.3	7162.2	7121.1	7074.8	7023.4	6995.1	6882.0	6753.4	6573.5	6326.7
7.5°	7229.0	7213.6	7162.2	7105.6	7041.4	6979.7	6930.8	6817.7	6699.5	6516.9	6216.1
10°	7208.5	7190.5	7151.9	7090.2	7010.5	6951.4	6902.5	6794.6	6694.3	6529.8	6195.6
12.5°	7185.3	7167.3	7149.3	7118.5	7049.1	7007.9	6966.8	6864.0	6774.0	6635.2	6270.1
15°	7208.5	7198.2	7218.8	7205.9	7167.3	7131.3	7090.2	6997.7	6915.4	6799.7	6406.4
17.5°	7306.2	7306.2	7370.4	7378.1	7342.1	7290.7	7231.6	7139.1	7069.6	6972.0	6568.3
20°	7535.0	7527.2	7609.5	7624.9	7537.5	7457.8	7370.4	7257.3	7203.3	7141.6	6727.7
22.5°	7928.3	7892.3	7941.1	7925.7	7753.5	7630.1	7522.1	7383.3	7355.0	7326.7	6905.1
25°	8439.9	8419.3	8452.7	8301.0	7997.7	7830.6	7702.1	7545.2	7545.2	7573.5	7105.6
27.5°	9182.8	9105.7	8992.6	8725.2	8270.2	8056.8	7918.0	7750.9	7794.6	7900.0	7370.4
30°	9943.8	9858.9	9599.3	9188.0	8601.8	8378.2	8216.2	8041.4	8144.2	8337.0	7725.2
32.5°	10694.4	10599.3	10231.7	9712.4	9077.4	8853.8	8696.9	8504.1	8676.4	9000.3	8244.5
35°	11422.0	11337.1	10913.0	10301.1	9709.8	9524.7	9380.8	9213.7	9434.8	9887.2	8977.2
37.5°	12239.5	12146.9	11630.2	10966.9	10478.5	10344.8	10239.4	10072.3	10457.9	11121.2	9997.8
40°	13244.7	13087.8	12391.2	11730.5	11368.0	11303.7	11231.7	11208.6	11807.6	12725.4	11357.7
42.5°	14396.4	14139.3	13188.1	12535.1	12344.9	12391.2	12373.2	12476.0	13496.6	14720.3	13013.3
45°	15548.1	15216.4	14075.0	13393.8	13419.5	13581.4	13681.7	14093.0	15612.3	17008.3	14794.8
47.5°	16525.0	16198.5	14926.0	14321.8	14630.3	14949.1	15221.6	16000.5	17787.2	19260.3	16180.5
50°	17360.5	17052.0	15828.3	15342.4	16036.5	16550.7	16992.9	18147.1	20126.6	20975.0	17152.2
52.5°	18044.3	17838.6	16764.1	16512.1	17643.3	18396.5	19044.3	20427.4	22198.7	22368.4	17908.1
55°	18710.1	18563.6	17769.2	17902.9	19530.2	20556.0	21376.0	22846.5	23982.8	23530.4	18633.0
57.5°	19476.2	19342.6	18915.8	19666.5	22011.0	23301.6	24196.2	24990.6	25553.6	24718.1	19316.8
60°	20257.7	20180.6	20190.9	21625.4	24859.4	26098.6	26592.2	26797.8	27096.0	25836.3	19355.4
62.5°	21003.3	21149.8	21648.5	23805.4	27587.0	28538.2	28787.6	28990.7	28641.1	26013.7	17882.3
65°	22265.5	22504.6	23694.9	26723.3	30587.1	31605.2	31862.3	31165.6	28885.3	23720.6	14545.5
67.5°	22882.5	23319.5	25443.0	29443.1	33497.3	34628.4	34533.3	31307.0	25921.2	18088.0	9334.5
69°	22754.0	23219.3	25846.6	30276.1	34463.9	35489.6	34885.5	29576.8	22083.0	13103.3	5730.3
70°	22245.0	22715.4	25638.4	30245.2	34587.3	35399.6	34232.5	27440.5	18671.6	9581.3	3583.7
72.5°	18576.5	18982.6	22761.7	27337.7	31862.3	31201.6	28638.5	19010.9	9098.0	2609.3	807.2
75°	11434.8	11661.1	16332.2	20594.5	24065.1	22368.4	19080.3	9457.9	2712.2	737.8	447.3
77.5°	6041.3	6144.2	8941.2	12139.2	15255.0	12622.5	9779.2	3689.1	1249.4	462.7	323.9
80°	3570.8	3647.9	4815.1	5550.3	6601.8	5514.3	3910.2	2264.9	894.6	290.5	287.9
82.5°	2043.8	2092.6	3491.1	3084.9	2601.6	2221.2	1946.1	2146.6	537.3	195.4	298.2
85°	750.7	761.0	1964.1	2347.1	1547.6	920.3	966.6	1779.0	144.0	123.4	233.9
87.5°	349.6	341.9	1010.3	1437.1	904.9	583.6	753.2	390.8	56.6	79.7	64.3
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°	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7	6452.7
2.5°	6375.5	6280.4	6108.2	5930.8	5750.8	5612.0	5475.8	5367.8	5331.8	5265.0	5270.1
5°	6180.2	6005.3	5645.4	5280.4	4899.9	4586.3	4290.6	4051.5	3935.9	3817.6	3817.6
7.5°	6010.5	5756.0	5193.0	4599.1	3984.7	3468.0	3002.7	2653.0	2460.2	2306.0	2303.4
10°	5946.2	5601.7	4815.1	3964.1	3108.1	2403.7	1851.0	1496.2	1313.7	1195.4	1190.3
12.5°	5974.5	5547.7	4524.6	3378.0	2303.4	1545.0	1072.0	843.2	766.1	730.1	730.1
15°	6056.8	5532.3	4234.1	2804.7	1627.3	966.6	712.1	650.4	645.3	645.3	645.3
17.5°	6157.0	5537.5	3935.9	2246.9	1108.0	691.5	614.4	606.7	611.8	611.8	611.8
20°	6259.9	5540.0	3614.5	1730.1	781.5	601.6	578.4	575.9	581.0	581.0	583.6
22.5°	6385.8	5552.9	3293.2	1293.1	645.3	568.1	550.1	550.1	552.7	552.7	550.1
25°	6529.8	5578.6	2959.0	958.9	588.7	545.0	529.6	527.0	529.6	527.0	524.4
27.5°	6709.7	5614.6	2586.2	750.7	563.0	521.9	509.0	509.0	506.4	503.9	501.3
30°	6936.0	5655.7	2167.2	637.6	537.3	501.3	488.4	485.9	483.3	478.2	478.2
32.5°	7280.4	5745.7	1753.3	578.4	509.0	473.0	462.7	462.7	457.6	452.5	449.9
35°	7810.0	5923.1	1383.1	542.4	478.2	442.2	429.3	429.3	424.2	421.6	419.0
37.5°	8542.7	6193.0	1074.6	509.0	447.3	408.8	395.9	393.3	388.2	383.0	380.5
40°	9517.0	6527.2	845.8	478.2	416.5	375.3	365.1	359.9	349.6	341.9	341.9
42.5°	10740.7	6907.7	686.4	444.7	380.5	344.5	336.8	329.1	311.1	303.4	300.8
45°	12021.0	7249.6	581.0	406.2	344.5	313.6	308.5	295.6	272.5	264.8	264.8
47.5°	12943.9	7329.3	511.6	370.2	311.1	280.2	277.6	254.5	233.9	228.8	226.2
50°	13519.7	7172.5	455.0	334.2	280.2	249.4	241.7	213.4	200.5	195.4	192.8
52.5°	13907.9	6892.3	408.8	303.4	251.9	221.1	203.1	182.5	172.2	167.1	167.1
55°	14219.0	6496.4	362.5	275.1	228.8	198.0	172.2	156.8	146.5	141.4	141.4
57.5°	14306.4	5959.1	316.2	251.9	205.7	174.8	146.5	136.3	123.4	120.8	120.8
60°	13671.4	4989.9	280.2	223.7	185.1	151.7	128.5	115.7	102.8	100.3	97.7
62.5°	11997.8	3861.3	246.8	198.0	162.0	131.1	110.5	95.1	84.8	84.8	84.8
65°	9152.0	2588.8	215.9	172.2	141.4	110.5	95.1	77.1	72.0	72.0	74.6
67.5°	5478.3	1408.8	185.1	146.5	120.8	92.5	79.7	66.8	64.3	66.8	66.8
69°	3210.9	827.8	167.1	131.1	105.4	82.3	69.4	59.1	64.3	66.8	66.8
70°	1982.1	557.9	154.2	118.3	95.1	74.6	64.3	56.6	61.7	64.3	64.3
72.5°	552.7	287.9	123.4	92.5	77.1	61.7	51.4	51.4	59.1	61.7	61.7
75°	359.9	213.4	95.1	69.4	59.1	48.8	43.7	48.8	56.6	59.1	59.1
77.5°	298.2	174.8	77.1	56.6	48.8	46.3	41.1	43.7	51.4	54.0	54.0
80°	272.5	123.4	61.7	51.4	43.7	41.1	38.6	36.0	46.3	48.8	48.8
82.5°	259.6	97.7	54.0	46.3	41.1	36.0	33.4	36.0	41.1	43.7	46.3
85°	162.0	64.3	48.8	43.7	36.0	33.4	33.4	33.4	38.6	41.1	41.1
87.5°	59.1	51.4	43.7	36.0	30.8	30.8	30.8	30.8	33.4	38.6	38.6
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)