

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: P194457

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29953 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

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: 25 FT



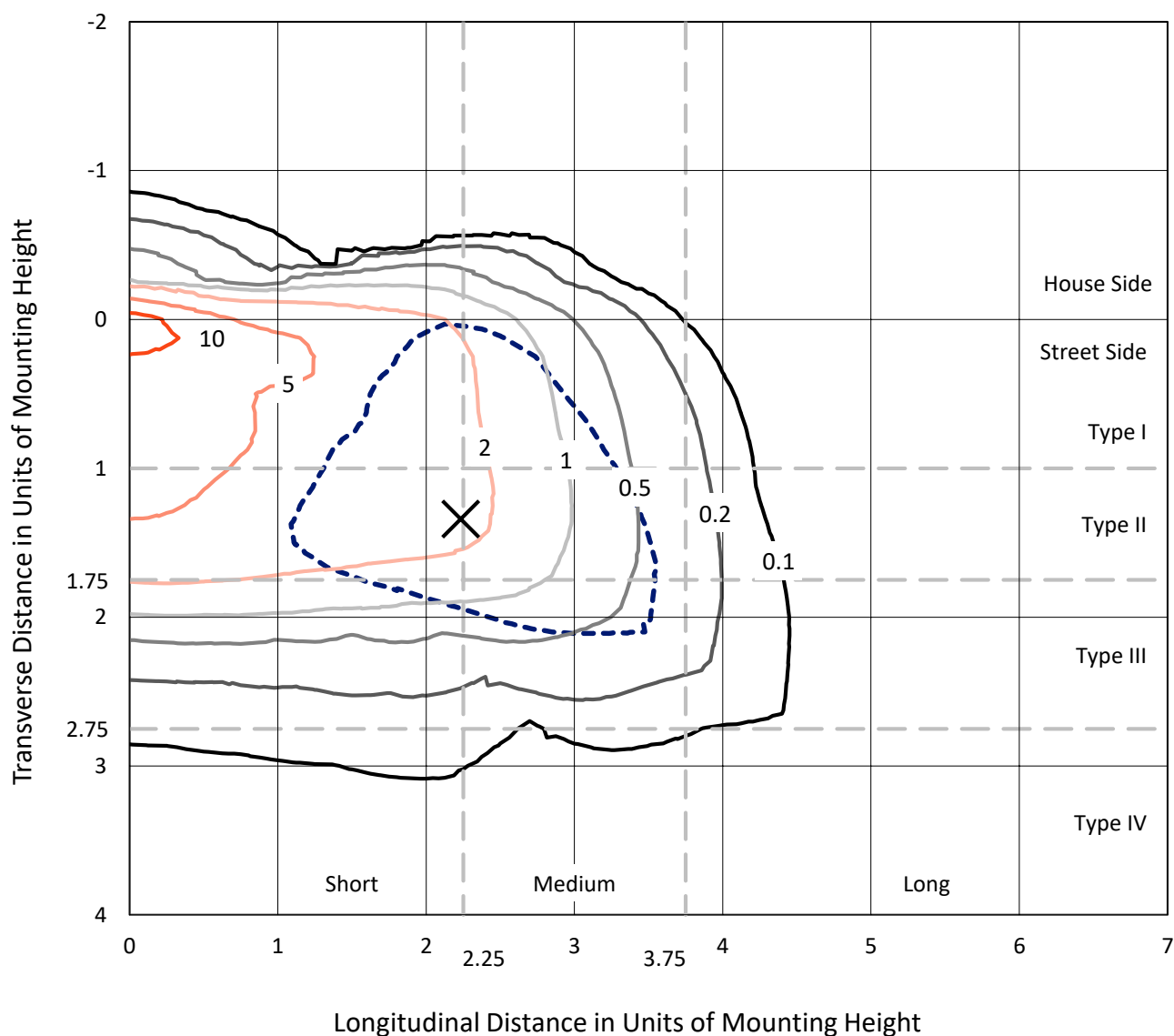
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

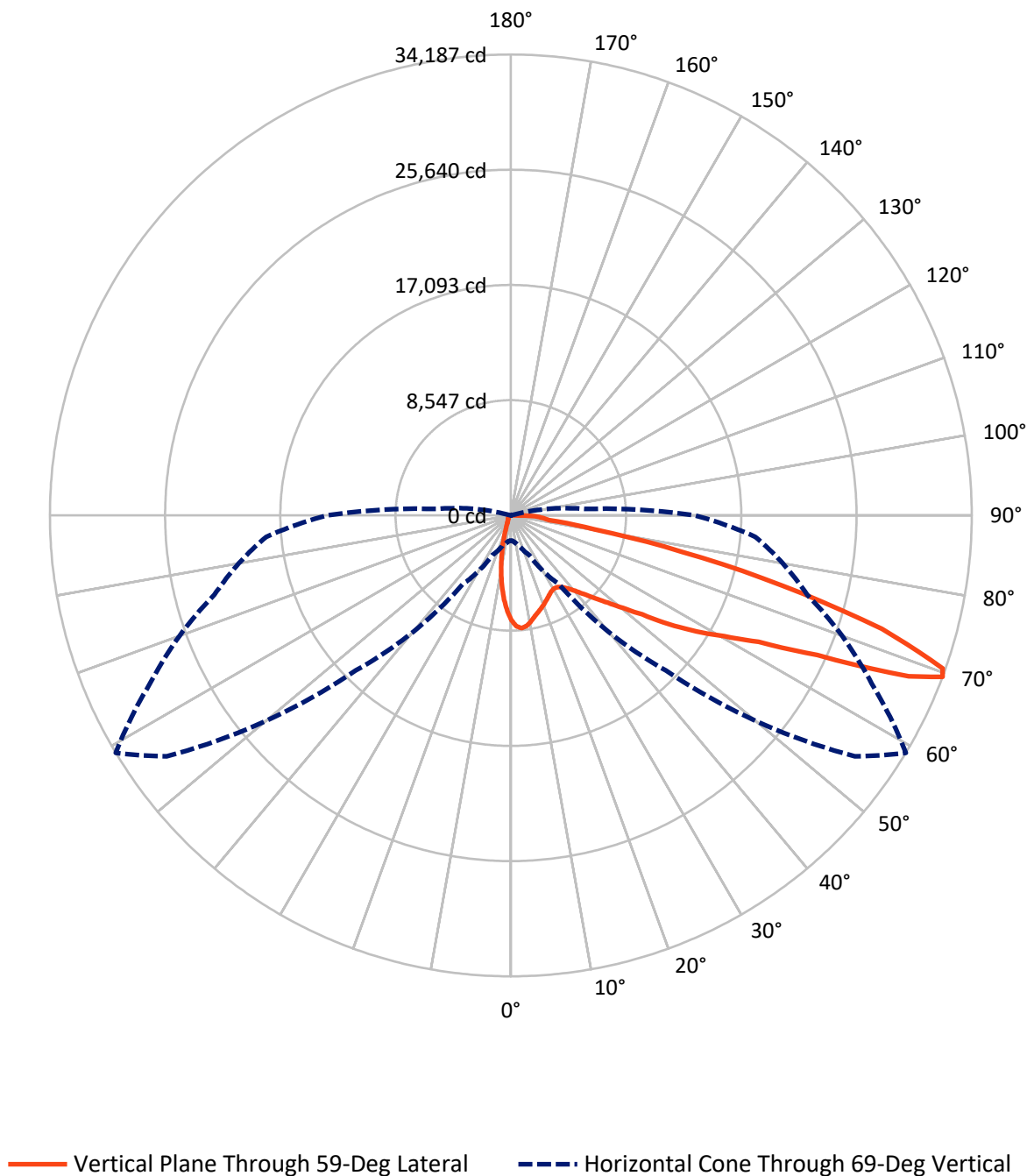


Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2439.3	0.0	2439.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	27513.7	0.0	27513.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	29953.0	0.0	29953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	2.1
10°-20°	1307.6	4.4
20°-30°	1759.6	5.9
30°-40°	2554.8	8.5
40°-50°	4253.9	14.2
50°-60°	6636.0	22.2
60°-70°	8211.5	27.4
70°-80°	4161.5	13.9
80°-90°	435.4	1.5
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°	29953.0	100.0
0°-180°	29953.0	100.0

Coefficient of Utilization



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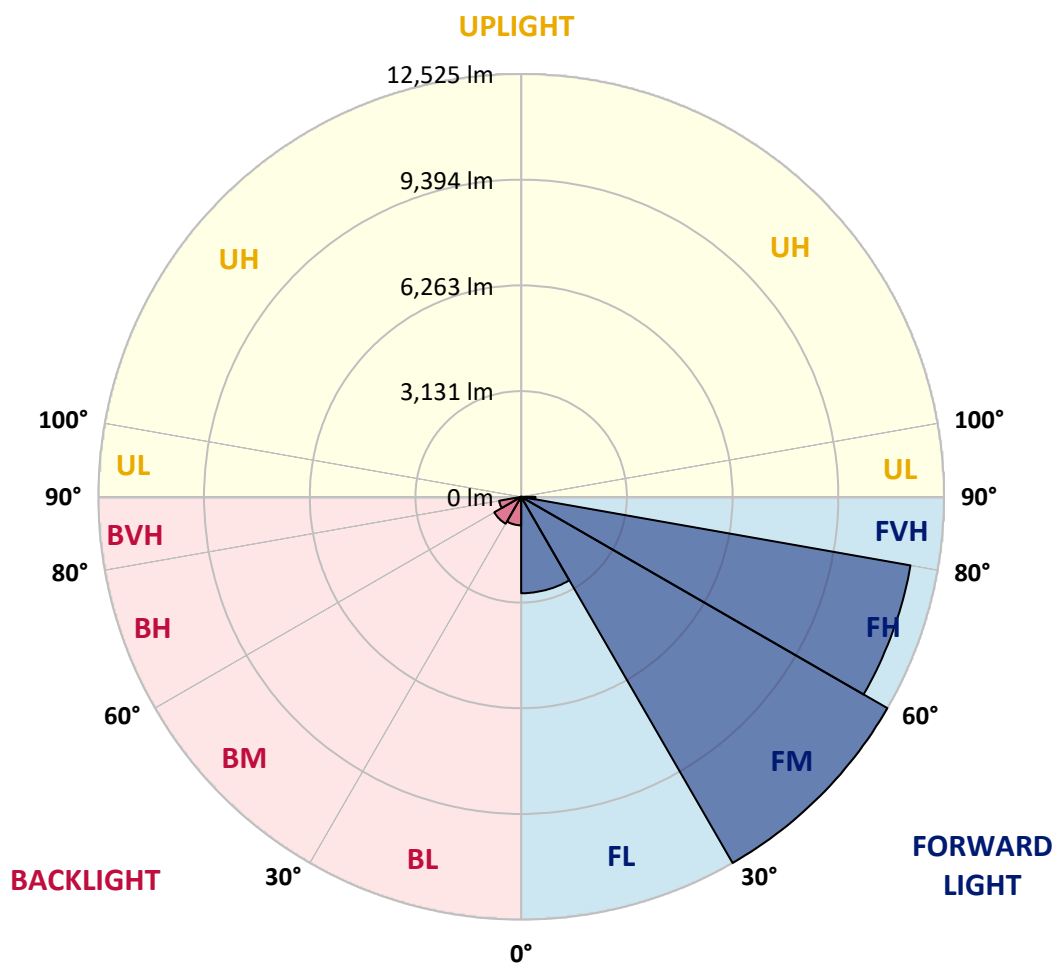
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2855.7	9.5			
FM	(30°-60°)	12525.5	41.8			
FH	(60°-80°)	11710.5	39.1			G4/12000
FVH	(80°-90°)	422.0	1.4			G3/500
BL	(0°-30°)	844.3	2.8	B2/1000		
BM	(30°-60°)	919.1	3.1	B1/1000		
BH	(60°-80°)	662.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	13.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4
2.5°	8545.0	8541.6	8504.3	8487.4	8456.9	8392.6	8292.6	8240.1	8155.4	8008.1	7809.9
5°	8467.1	8507.7	8529.7	8531.4	8553.5	8529.7	8440.0	8395.9	8279.1	8041.9	7686.3
7.5°	7938.6	7953.9	8016.5	8070.7	8175.8	8275.7	8307.9	8289.2	8219.8	7965.7	7493.2
10°	7372.9	7388.2	7462.7	7533.8	7676.1	7830.2	7992.8	8026.7	8055.5	7857.3	7306.9
12.5°	6885.1	6900.4	6976.6	7069.7	7235.7	7425.4	7677.8	7733.7	7860.7	7754.0	7157.8
15°	6465.1	6471.8	6546.4	6661.5	6859.7	7103.6	7389.9	7479.6	7674.4	7681.2	7027.4
17.5°	6107.7	6124.6	6170.3	6280.4	6497.2	6798.7	7132.4	7261.1	7489.8	7620.2	6900.4
20°	5889.2	5906.1	5904.4	5965.4	6160.2	6482.0	6874.9	7029.1	7306.9	7557.5	6786.9
22.5°	5846.8	5846.8	5802.8	5794.3	5909.5	6178.8	6607.3	6795.3	7142.6	7530.4	6707.3
25°	5997.6	5990.8	5880.7	5790.9	5796.0	5956.9	6348.2	6571.8	7003.7	7549.1	6664.9
27.5°	6316.0	6307.5	6168.7	5997.6	5860.4	5858.7	6151.7	6392.2	6893.6	7637.1	6681.9
30°	6756.4	6753.0	6602.3	6387.1	6138.2	5909.5	6084.0	6302.5	6822.4	7796.4	6720.8
32.5°	7237.4	7232.3	7118.9	6891.9	6576.8	6138.2	6155.1	6338.0	6842.8	8008.1	6815.7
35°	7747.2	7738.8	7689.6	7491.5	7144.3	6559.9	6388.8	6531.1	6971.5	8324.8	7002.0
37.5°	8299.4	8307.9	8343.4	8153.7	7789.6	7151.0	6780.1	6876.6	7230.6	8755.0	7305.2
40°	9114.1	9112.4	9124.3	8875.3	8524.7	7874.3	7327.2	7357.7	7664.2	9325.8	7765.9
42.5°	10592.7	10489.4	10176.1	9668.0	9315.6	8700.8	8016.5	7984.4	8194.4	10032.1	8411.2
45°	12579.5	12359.3	11546.3	10572.4	10121.9	9632.4	8865.1	8761.8	8895.6	10880.7	9207.2
47.5°	14288.5	14059.9	12909.8	11514.1	10977.2	10516.5	9859.3	9673.0	9717.1	11830.9	10216.7
50°	14869.5	14757.7	13753.3	12333.9	11805.5	11629.3	11012.8	10785.8	10723.2	12930.1	11387.1
52.5°	14667.9	14659.4	13990.4	12865.8	12564.3	12781.1	12464.3	12201.8	11971.5	14088.6	12577.8
55°	14344.4	14386.8	14087.0	13331.5	13321.4	13832.9	14449.4	14230.9	13563.6	15347.1	13604.2
57.5°	13451.8	13633.0	14032.8	14212.3	14629.0	15152.3	16102.5	16231.2	15442.0	16310.9	14456.2
60°	10914.6	11312.6	12620.2	14339.3	16314.2	17618.4	18097.8	18207.9	16983.3	17112.0	15606.3
62.5°	7747.2	8153.7	9811.9	12720.1	16339.6	20858.6	21070.3	20638.4	18680.4	18299.3	17589.6
65°	4112.4	4425.8	5780.8	9181.8	14166.6	21610.6	26268.4	24981.2	21675.0	20635.0	20152.3
67.5°	2103.6	2198.5	2737.1	4493.5	9739.1	19195.3	30928.0	31834.1	26835.8	22952.1	20028.6
69°	1861.4	1917.3	2274.7	3248.6	6236.4	16258.3	31154.9	34186.7	29537.4	22759.0	18201.1
70°	1802.2	1851.3	2176.5	2940.4	4874.6	13634.7	30286.0	33980.1	30228.4	22023.9	16835.9
72.5°	1529.5	1571.8	1937.7	2598.2	3961.7	6768.2	24601.8	28793.8	27125.5	18346.7	12186.6
75°	1023.0	1161.9	1859.7	2435.6	3685.6	3844.8	16219.4	20807.8	19329.1	12374.6	6348.2
77.5°	245.6	264.2	525.1	1937.7	3370.6	3384.1	8341.7	12935.2	10550.4	4410.5	1500.7
80°	132.1	127.0	147.4	384.5	3138.5	3175.8	3755.1	6278.7	3766.9	731.7	494.6
82.5°	93.2	88.1	94.9	160.9	987.5	2892.9	2716.8	2842.1	1561.6	281.2	221.9
85°	33.9	32.2	52.5	145.7	310.0	1663.3	2791.3	2344.2	1265.2	128.7	162.6
87.5°	11.9	10.2	20.3	79.6	94.9	708.0	1722.5	1771.7	498.0	77.9	76.2
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°	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4	7796.4
2.5°	7726.9	7621.9	7428.8	7230.6	7047.7	6827.5	6717.4	6609.0	6563.3	6546.4	6466.8
5°	7503.3	7325.5	6915.6	6504.0	6124.6	5721.5	5455.6	5242.2	5116.8	5055.9	4959.3
7.5°	7217.1	6925.8	6304.2	5669.0	5077.9	4495.2	4063.3	3731.3	3502.7	3392.6	3292.7
10°	6939.3	6551.4	5667.3	4801.8	3999.0	3226.6	2630.4	2198.5	1922.4	1795.4	1714.1
12.5°	6690.3	6187.3	5052.5	3956.6	2948.8	2044.4	1438.0	1094.2	923.1	863.8	835.0
15°	6468.4	5851.9	4471.5	3153.8	1996.9	1168.7	785.9	669.0	641.9	641.9	638.5
17.5°	6258.4	5523.3	3910.9	2400.1	1253.4	714.8	597.9	582.7	582.7	589.4	589.4
20°	6056.9	5210.0	3368.9	1722.5	789.3	567.4	540.3	536.9	540.3	548.8	548.8
22.5°	5884.1	4925.4	2862.4	1182.2	586.0	511.5	498.0	492.9	494.6	499.7	503.0
25°	5755.4	4684.9	2384.8	801.1	504.7	465.8	450.5	442.1	435.3	435.3	438.7
27.5°	5674.1	4481.7	1922.4	582.7	453.9	423.4	399.7	386.2	370.9	362.5	365.9
30°	5614.8	4288.6	1488.8	475.9	406.5	376.0	345.5	323.5	301.5	291.3	294.7
32.5°	5592.8	4132.8	1112.8	420.1	364.2	330.3	293.0	264.2	240.5	232.0	233.7
35°	5652.1	4009.1	814.7	379.4	330.3	287.9	245.6	213.4	194.8	189.7	191.4
37.5°	5807.9	3943.1	609.8	345.5	299.8	252.4	204.9	174.5	162.6	162.6	164.3
40°	6102.6	3941.4	489.5	321.8	272.7	218.5	169.4	147.4	140.6	144.0	145.7
42.5°	6532.8	4031.1	426.8	299.8	249.0	186.3	140.6	125.3	123.6	127.0	128.7
45°	7120.5	4195.4	393.0	281.2	223.6	155.8	118.6	108.4	108.4	113.5	115.2
47.5°	7840.4	4435.9	364.2	262.5	198.2	130.4	101.6	94.9	96.5	101.6	103.3
50°	8707.6	4739.1	335.4	242.2	179.5	108.4	88.1	83.0	84.7	91.5	93.2
52.5°	9695.1	5147.3	311.7	223.6	155.8	89.8	74.5	71.1	74.5	81.3	83.0
55°	10541.9	5513.2	282.9	208.3	125.3	74.5	61.0	61.0	64.4	72.8	74.5
57.5°	11356.6	5896.0	257.5	179.5	98.2	59.3	50.8	52.5	57.6	66.1	67.8
60°	12552.4	6544.7	227.0	150.7	74.5	47.4	42.3	44.0	50.8	59.3	61.0
62.5°	14583.2	7532.1	196.5	125.3	57.6	37.3	33.9	37.3	45.7	55.9	57.6
65°	16415.9	7933.5	160.9	105.0	44.0	28.8	28.8	33.9	44.0	54.2	55.9
67.5°	15394.5	6678.5	125.3	83.0	33.9	22.0	23.7	32.2	42.3	54.2	55.9
69°	13614.4	5460.7	106.7	66.1	28.8	20.3	22.0	32.2	42.3	52.5	54.2
70°	12227.2	4610.4	94.9	55.9	25.4	20.3	22.0	30.5	42.3	52.5	54.2
72.5°	8189.3	2489.8	76.2	40.7	23.7	18.6	18.6	30.5	40.7	50.8	52.5
75°	3519.6	687.7	61.0	28.8	20.3	16.9	16.9	28.8	39.0	49.1	52.5
77.5°	643.6	174.5	49.1	25.4	20.3	16.9	15.2	27.1	37.3	47.4	49.1
80°	255.8	86.4	39.0	22.0	18.6	15.2	13.6	25.4	35.6	45.7	47.4
82.5°	154.1	49.1	32.2	20.3	18.6	13.6	11.9	22.0	33.9	44.0	45.7
85°	125.3	33.9	25.4	20.3	16.9	13.6	10.2	20.3	30.5	42.3	44.0
87.5°	61.0	23.7	23.7	18.6	16.9	13.6	10.2	18.6	28.8	40.7	42.3
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)