

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: P455476

Luminaire Tested: **GALN-SA6C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 27404 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321
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

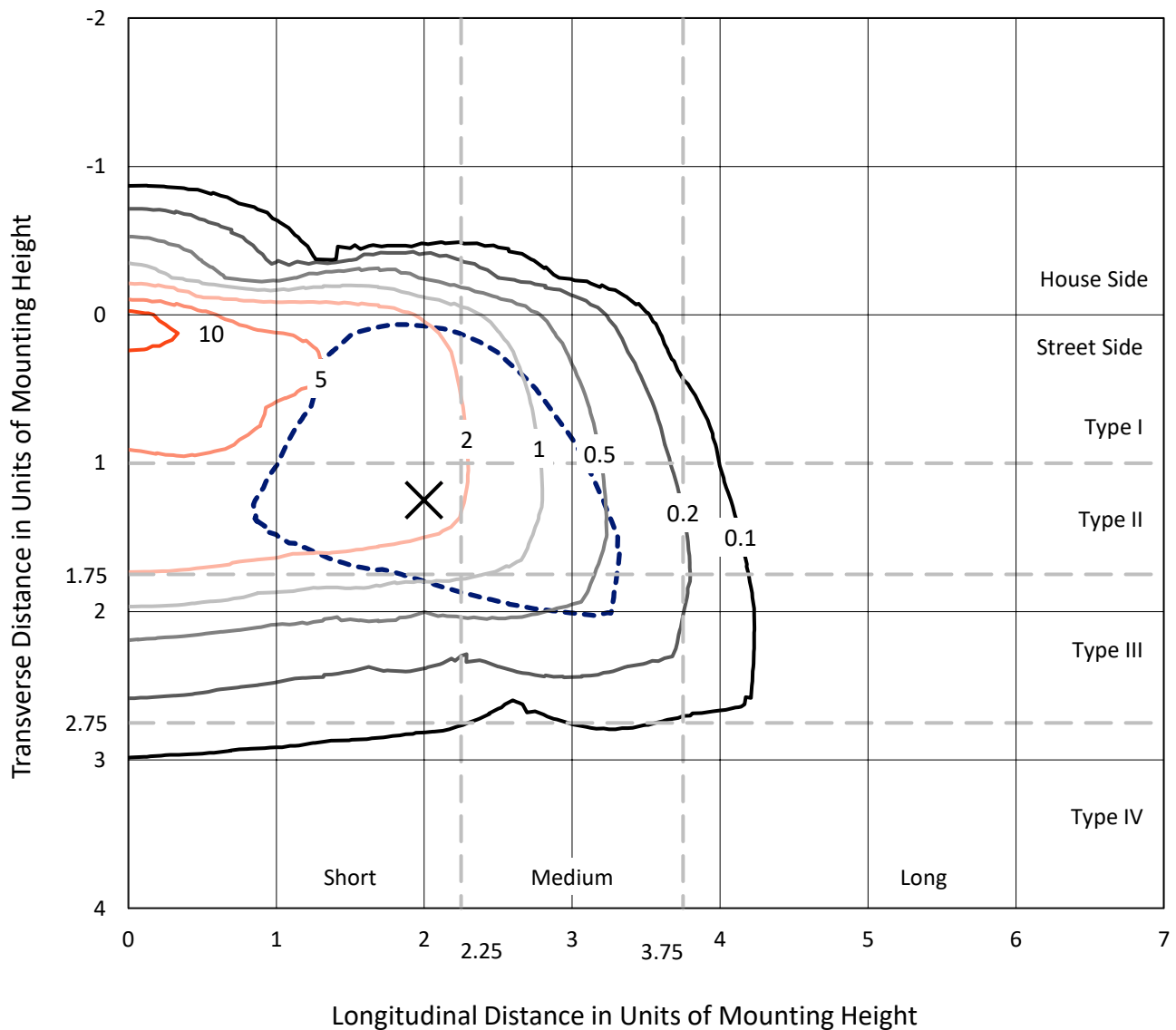


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

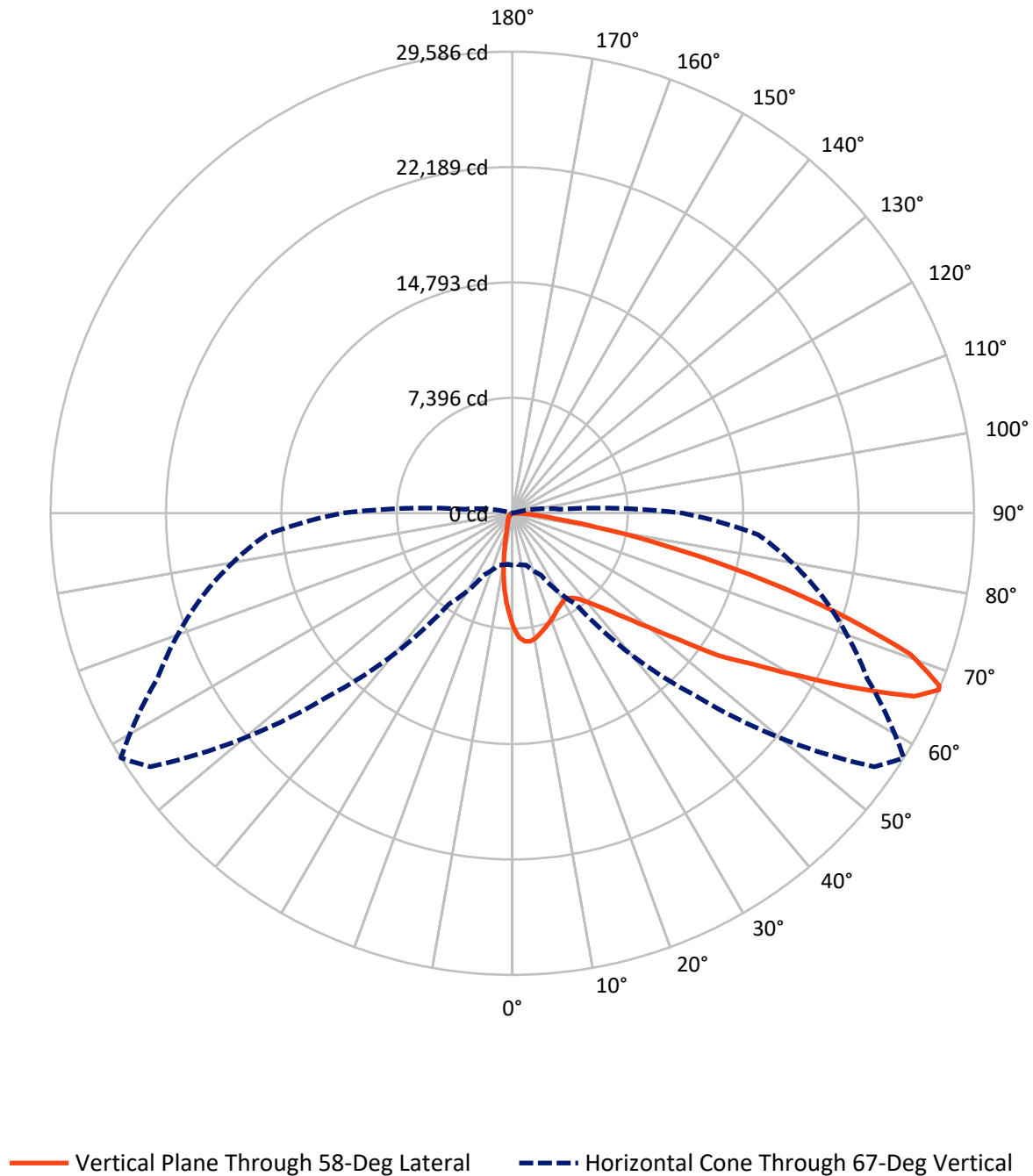


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1977.6	0.0	1977.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25426.4	0.0	25426.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	27404.0	0.0	27404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.5	2.2
10°-20°	1273.2	4.6
20°-30°	1725.3	6.3
30°-40°	2392.8	8.7
40°-50°	3816.3	13.9
50°-60°	6596.7	24.1
60°-70°	7535.5	27.5
70°-80°	3141.6	11.5
80°-90°	333.1	1.2
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°	27404.0	100.0
0°-180°	27404.0	100.0

Coefficient of Utilization



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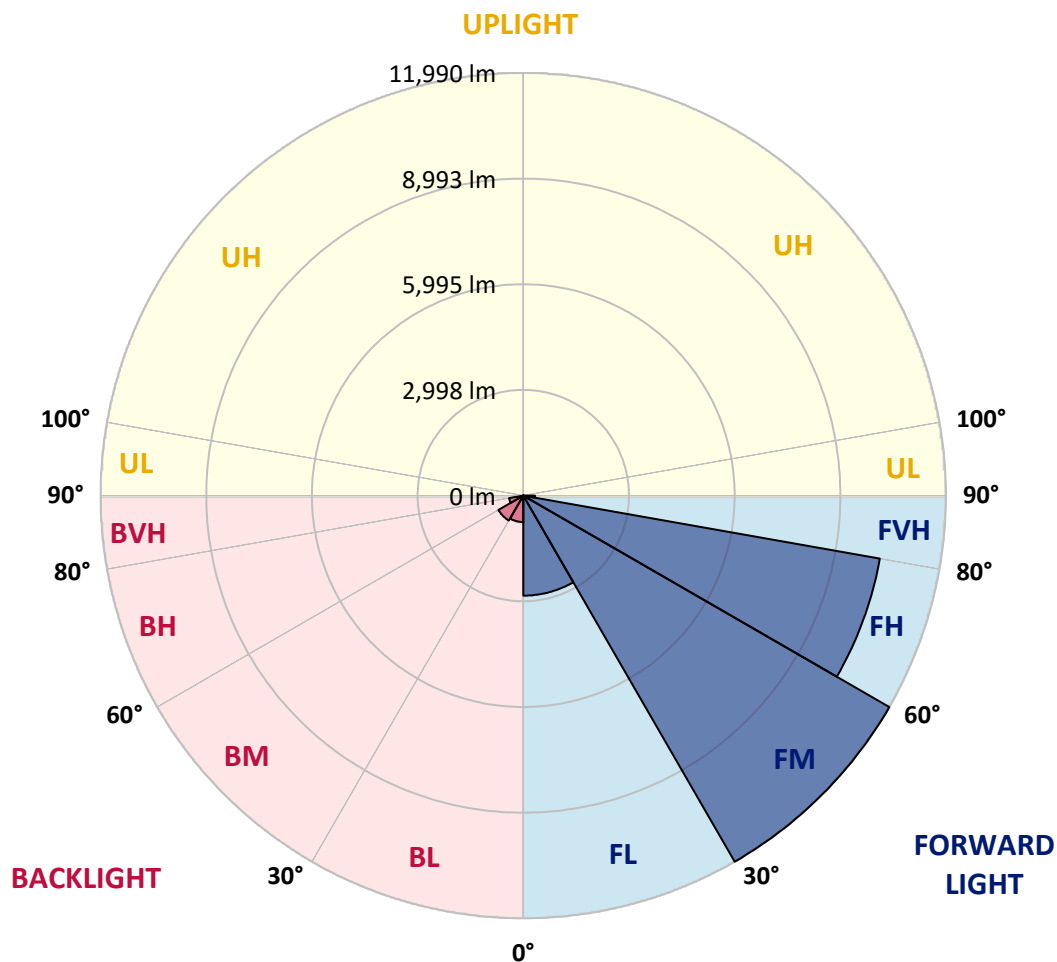
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2837.0	10.4			
FM	(30°-60°)	11990.4	43.8			
FH	(60°-80°)	10268.3	37.5			G4/12000
FVH	(80°-90°)	330.7	1.2			G3/500
BL	(0°-30°)	751.0	2.7	B2/1000		
BM	(30°-60°)	815.4	3.0	B1/1000		
BH	(60°-80°)	408.8	1.5	B1/500		G1/500
BVH	(80°-90°)	2.4	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5
2.5°	8431.1	8443.9	8396.3	8357.8	8258.9	8152.7	8011.7	7936.6	7808.4	7586.8	7341.5
5°	8628.8	8645.3	8638.0	8628.8	8590.4	8487.8	8308.4	8242.4	8053.8	7693.1	7249.9
7.5°	8189.3	8249.8	8257.1	8328.5	8396.3	8405.4	8337.7	8288.2	8114.2	7691.2	7086.9
10°	7607.0	7647.3	7705.9	7788.3	7951.3	8086.8	8152.7	8145.4	8044.7	7634.5	6896.5
12.5°	7019.2	7041.1	7130.9	7271.9	7471.5	7702.2	7878.0	7912.8	7914.6	7566.7	6737.2
15°	6513.7	6504.6	6574.2	6737.2	7017.3	7306.7	7621.6	7676.6	7764.5	7500.8	6588.8
17.5°	6081.6	6129.2	6140.2	6319.6	6577.8	6953.2	7354.3	7451.3	7627.1	7444.0	6466.1
20°	5814.2	5839.8	5863.6	5964.4	6196.9	6592.5	7103.4	7237.1	7498.9	7392.7	6328.8
22.5°	5735.5	5751.9	5731.8	5762.9	5927.7	6279.3	6830.5	7008.2	7376.3	7345.1	6217.1
25°	5795.9	5812.4	5764.8	5728.1	5784.9	6024.8	6566.8	6782.9	7277.4	7336.0	6132.8
27.5°	5942.4	5973.5	5907.6	5841.7	5808.7	5887.5	6359.9	6610.8	7209.6	7379.9	6094.4
30°	6171.3	6189.6	6140.2	6059.6	5984.5	5905.8	6251.9	6491.8	7191.3	7482.5	6090.7
32.5°	6420.3	6458.8	6431.3	6378.2	6281.2	6094.4	6283.0	6495.4	7235.2	7630.8	6136.5
35°	6728.0	6771.9	6797.6	6786.6	6662.1	6429.5	6480.8	6660.2	7352.4	7903.7	6261.0
37.5°	7030.1	7068.6	7213.3	7262.7	7152.8	6933.1	6865.3	6984.4	7610.7	8260.7	6486.3
40°	7376.3	7427.5	7630.8	7819.4	7766.3	7535.6	7411.0	7509.9	8006.2	8799.1	6912.9
42.5°	7707.7	7799.3	8108.8	8442.0	8491.5	8233.3	8150.9	8183.8	8592.2	9573.7	7508.1
45°	8178.3	8264.4	8663.6	9115.9	9348.5	9147.1	9062.8	9057.3	9396.1	10663.3	8473.2
47.5°	8857.7	8934.6	9405.3	9852.1	10266.0	10293.4	10134.1	10189.0	10407.0	11937.9	9656.2
50°	9690.9	9872.2	10181.7	10646.9	11199.9	11646.7	11696.2	11622.9	11809.7	13413.9	11077.2
52.5°	10901.4	10971.0	11254.8	11637.6	12285.8	13044.0	13631.8	13531.1	13472.5	14820.3	12512.9
55°	11804.2	11897.6	12338.9	12864.5	13814.9	14814.8	16089.3	16124.1	15384.3	16171.7	13917.5
57.5°	11531.3	11674.2	12342.6	13399.2	15488.7	17316.3	18264.8	18288.6	17153.3	17484.7	15503.3
60°	10130.4	10198.2	11155.9	12566.0	15631.5	20026.5	21350.5	21158.2	18953.4	18953.4	16904.2
62.5°	7184.0	7290.2	8066.6	10141.4	14117.1	20967.8	25045.9	24648.6	21432.9	20358.0	17739.3
65°	4590.9	4488.4	5003.0	6402.0	10516.8	19577.8	28263.4	28287.2	23765.9	20920.1	17283.3
67°	3325.5	3285.3	3433.6	4376.7	7130.9	16457.4	28331.2	29585.6	25106.4	20564.9	15825.6
67.5°	3041.7	3072.8	3180.9	3948.2	6478.9	14975.9	28023.5	29508.7	25408.5	20350.6	15298.2
70°	2305.5	2252.4	2369.6	2792.6	3884.1	9447.4	24106.5	27064.0	25033.1	18224.5	12223.6
72.5°	1695.7	1690.2	1853.2	2283.6	2990.4	5032.3	18096.4	21700.3	20451.3	13877.2	7696.7
75°	1144.5	1195.8	1455.8	1908.2	2710.2	3263.3	12337.1	15743.2	14197.6	7879.8	3146.1
77.5°	651.9	655.6	937.6	1532.8	2433.7	2626.0	7310.3	10029.7	7515.4	2620.5	933.9
80°	282.0	309.5	465.1	1113.4	2018.0	2325.7	4191.7	5512.0	3039.9	554.9	302.2
82.5°	104.4	122.7	205.1	684.9	1472.3	1915.5	2532.6	2631.5	1031.0	195.9	188.6
85°	0.0	3.7	75.1	320.5	767.3	855.2	1692.1	1560.2	456.0	93.4	122.7
87.5°	0.0	0.0	0.0	33.0	100.7	318.6	525.6	586.0	109.9	33.0	29.3
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°	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5	7264.5
2.5°	7209.6	7090.6	6792.1	6493.6	6272.0	6087.1	5808.7	5656.7	5576.1	5457.1	5464.4
5°	7028.3	6786.6	6261.0	5717.1	5277.6	4849.1	4336.4	4129.5	3955.5	3856.6	3790.7
7.5°	6759.1	6402.0	5623.8	4898.6	4222.9	3473.9	2911.7	2536.3	2283.6	2190.2	2100.4
10°	6464.3	5990.0	4977.3	3972.0	3034.4	2261.6	1785.5	1441.2	1318.5	1205.0	1215.9
12.5°	6191.4	5614.6	4384.0	3135.1	2126.1	1437.5	1120.7	979.7	939.4	926.6	926.6
15°	5968.0	5255.7	3746.7	2356.8	1457.7	1032.8	897.3	858.9	844.2	840.5	840.5
17.5°	5730.0	4915.1	3171.7	1741.5	1060.3	864.3	818.6	792.9	787.4	783.8	783.8
20°	5517.5	4572.6	2626.0	1296.5	857.0	778.3	749.0	732.5	727.0	723.3	725.2
22.5°	5316.1	4268.6	2113.3	979.7	754.5	708.7	679.4	662.9	651.9	642.8	644.6
25°	5136.6	3975.6	1699.4	802.1	679.4	639.1	609.8	586.0	562.2	551.2	549.4
27.5°	5010.3	3719.3	1324.0	686.7	611.6	567.7	531.1	501.8	470.6	454.1	450.5
30°	4905.9	3459.2	1047.5	606.1	543.9	501.8	456.0	413.9	380.9	364.4	357.1
32.5°	4838.1	3212.0	825.9	540.2	487.1	435.8	384.6	342.4	305.8	289.3	285.7
35°	4827.2	3005.1	675.7	485.3	435.8	380.9	327.8	282.0	250.9	234.4	230.7
37.5°	4905.9	2845.8	565.9	441.3	393.7	333.3	274.7	232.6	205.1	192.3	190.4
40°	5116.5	2745.0	490.8	404.7	355.3	289.3	234.4	197.8	170.3	157.5	157.5
42.5°	5517.5	2748.7	441.3	369.9	316.8	247.2	199.6	164.8	141.0	130.0	126.4
45°	6143.8	2873.2	399.2	335.1	280.2	214.3	170.3	135.5	111.7	102.5	102.5
47.5°	6982.5	3120.4	362.6	300.3	247.2	183.1	144.7	109.9	89.7	80.6	80.6
50°	8079.5	3517.8	331.5	271.0	219.7	157.5	117.2	89.7	69.6	62.3	60.4
52.5°	9225.8	4008.6	294.8	245.4	188.6	133.7	95.2	69.6	53.1	47.6	45.8
55°	10491.2	4488.4	260.0	219.7	153.8	111.7	75.1	54.9	38.5	33.0	33.0
57.5°	11767.6	4959.0	217.9	183.1	120.9	82.4	58.6	40.3	25.6	20.1	20.1
60°	12848.0	5111.0	185.0	148.3	91.6	58.6	42.1	25.6	14.6	9.2	9.2
62.5°	12996.3	4598.3	155.7	113.5	65.9	40.3	22.0	14.6	5.5	3.7	3.7
65°	12190.6	3735.7	130.0	86.1	43.9	20.1	9.2	5.5	1.8	0.0	0.0
67°	10923.4	3028.9	106.2	64.1	31.1	12.8	5.5	1.8	0.0	0.0	0.0
67.5°	10599.2	2887.9	102.5	60.4	27.5	11.0	3.7	1.8	0.0	0.0	0.0
70°	8317.5	2162.7	73.2	36.6	16.5	7.3	0.0	0.0	0.0	0.0	0.0
72.5°	5169.6	1223.3	53.1	22.0	11.0	3.7	0.0	0.0	0.0	0.0	0.0
75°	1953.9	428.5	36.6	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	608.0	163.0	22.0	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	205.1	62.3	14.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	126.4	25.6	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.7	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	3.7	1.8	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)