

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: P459178

Luminaire Tested: **GALN-SA6C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28094 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

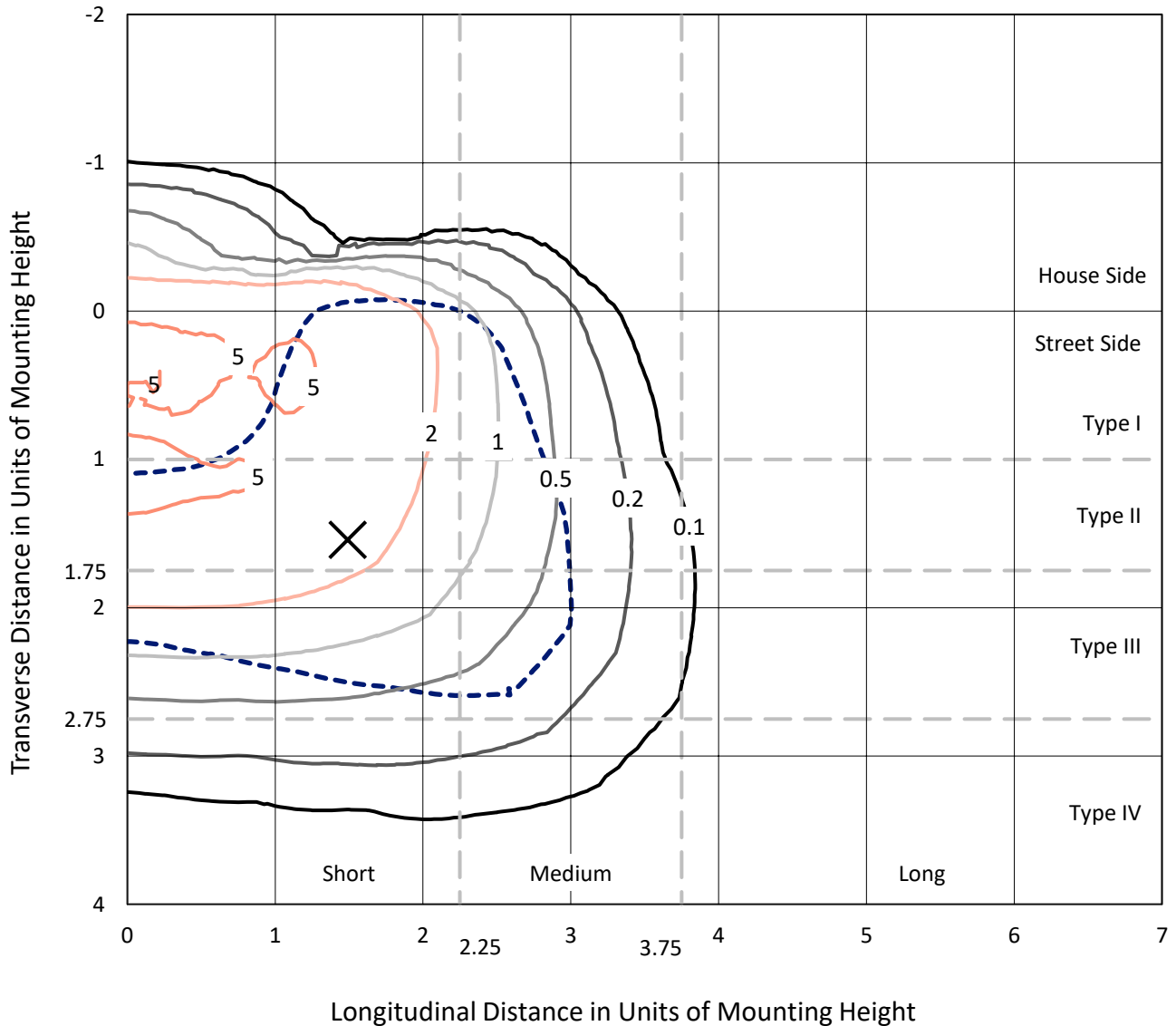
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

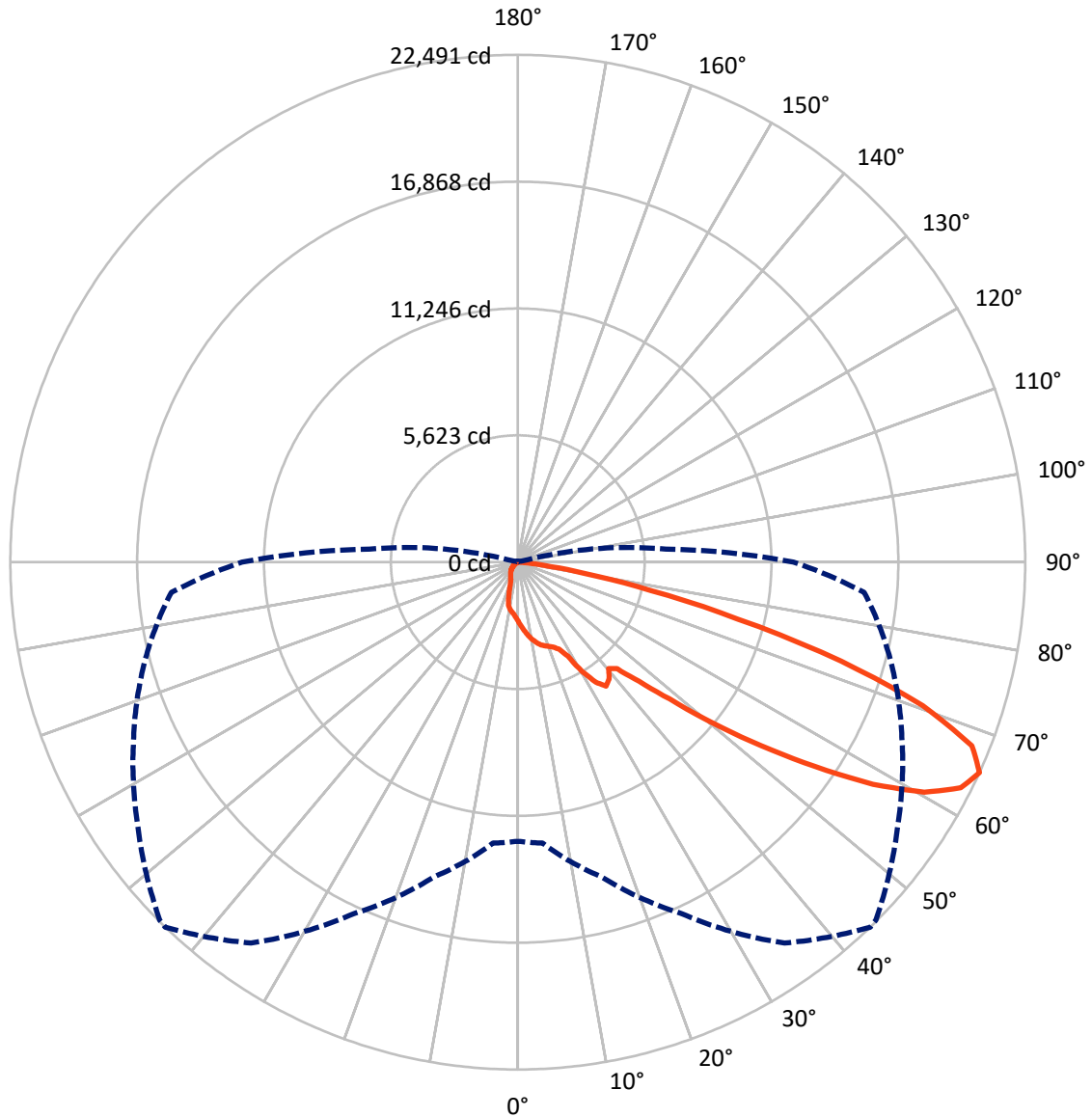
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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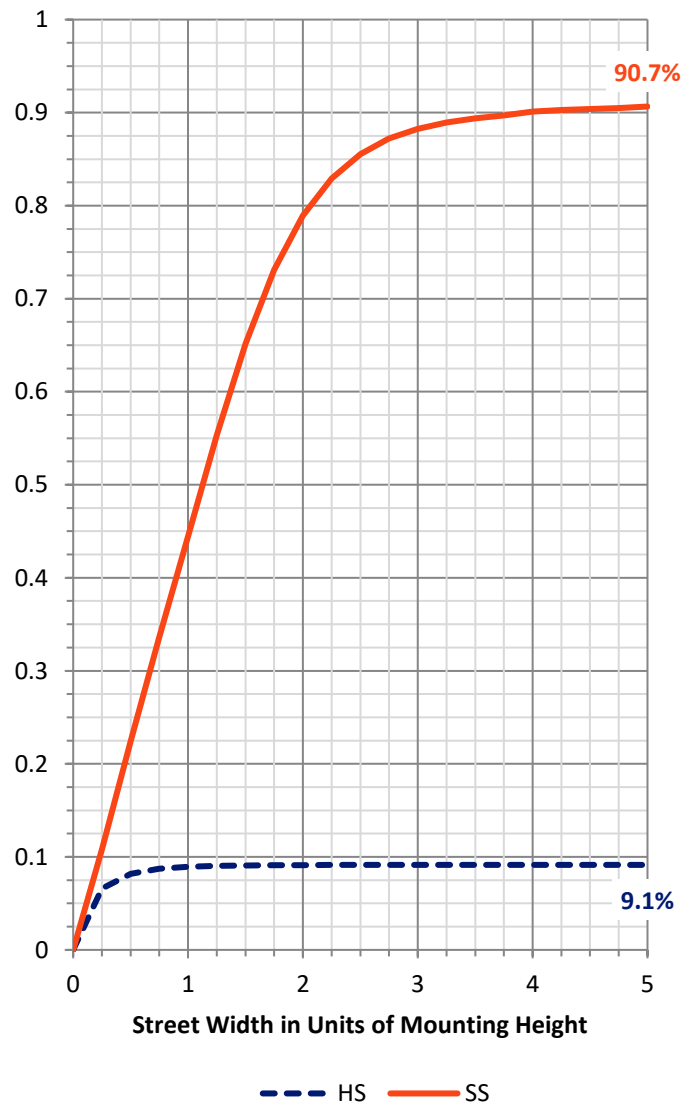
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2588.4	0.0	2588.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	25505.6	0.0	25505.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	28094.0	0.0	28094.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.1	0.9
10°-20°	782.7	2.8
20°-30°	1327.2	4.7
30°-40°	2206.6	7.9
40°-50°	3852.9	13.7
50°-60°	7527.1	26.8
60°-70°	8733.2	31.1
70°-80°	3180.2	11.3
80°-90°	224.1	0.8
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°	28094.0	100.0
0°-180°	28094.0	100.0



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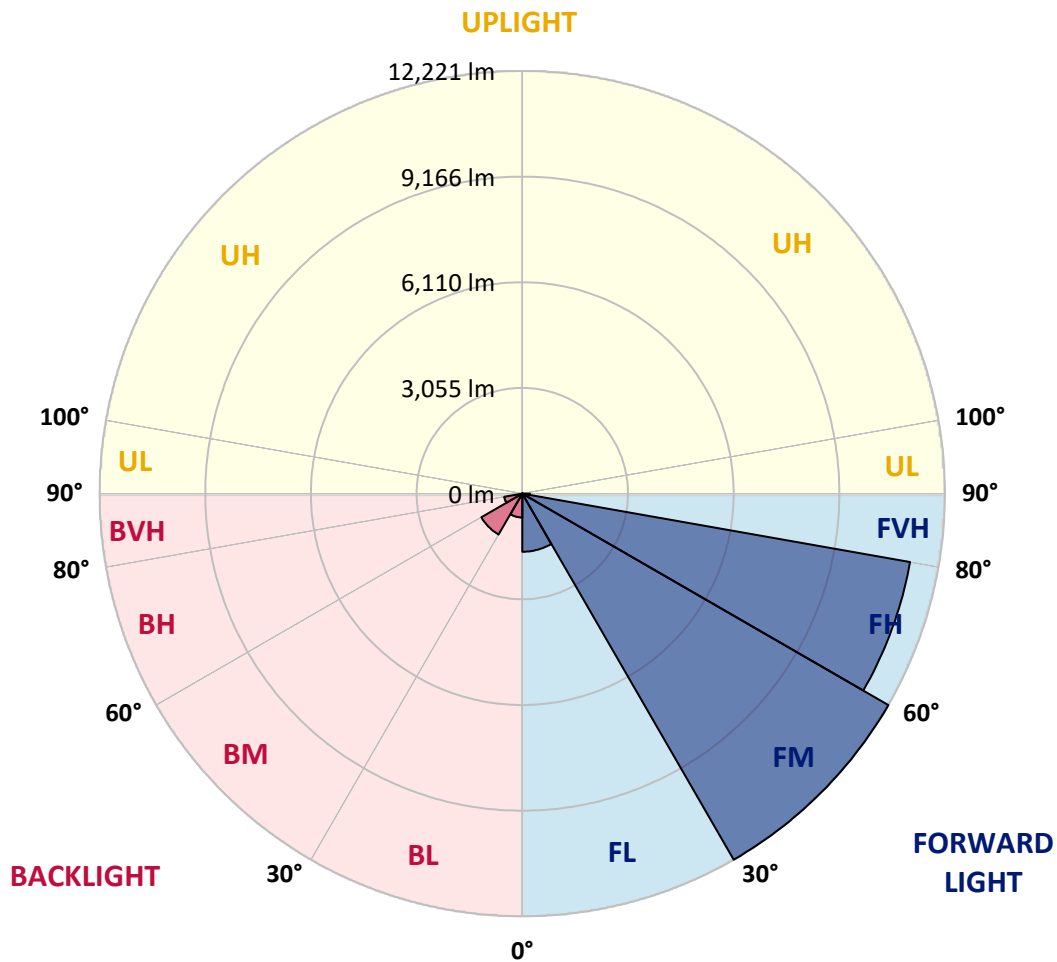
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.3	6.0			
FM (30°-60°)	12220.9	43.5			
FH (60°-80°)	11383.3	40.5			G4/12000
FVH (80°-90°)	221.0	0.8			G2/225
BL (0°-30°)	689.6	2.5	B2/1000		
BM (30°-60°)	1365.7	4.9	B2/2500		
BH (60°-80°)	530.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	44°	45°	55°	65°	75°	85°
0°	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7
2.5°	2943.2	2930.3	2923.8	2889.5	2863.7	2831.5	2831.5	2790.7	2743.5	2692.0	2644.8
5°	3271.6	3250.1	3222.2	3192.2	3132.1	3046.2	3046.2	2960.3	2861.6	2773.6	2677.0
7.5°	3587.2	3567.9	3520.6	3462.7	3363.9	3273.8	3267.3	3142.8	3024.7	2891.6	2754.3
10°	3864.1	3849.1	3808.3	3696.7	3593.6	3475.6	3473.4	3333.9	3196.5	3033.3	2863.7
12.5°	4057.3	4059.5	4005.8	3898.5	3765.4	3653.7	3645.1	3507.8	3363.9	3187.9	2979.7
15°	4194.7	4194.7	4138.9	4018.7	3898.5	3799.7	3791.1	3670.9	3522.8	3331.7	3106.3
17.5°	4233.3	4246.2	4186.1	4078.8	3982.2	3896.3	3894.2	3793.3	3675.2	3490.6	3235.1
20°	4218.3	4231.2	4184.0	4100.2	4033.7	3984.3	3977.9	3937.1	3827.6	3653.7	3372.5
22.5°	4186.1	4199.0	4164.7	4115.3	4083.1	4098.1	4087.4	4121.7	4063.8	3853.4	3535.7
25°	4192.6	4205.4	4179.7	4151.8	4179.7	4272.0	4299.9	4448.0	4396.5	4106.7	3711.7
27.5°	4394.4	4420.1	4383.6	4396.5	4495.2	4709.9	4763.6	5019.0	4791.5	4428.7	3986.5
30°	4843.0	4825.8	4757.1	4819.4	5162.9	5618.0	5603.0	5562.2	5205.8	4800.1	4312.8
32.5°	5250.9	5235.9	5231.6	5499.9	6122.5	6343.6	6332.8	5937.8	5577.2	5225.1	4634.8
35°	5416.2	5358.2	5345.4	5995.8	7037.0	6745.0	6678.5	6092.4	6028.0	5688.8	4963.2
37.5°	5914.2	5873.4	5673.8	6077.4	6672.0	6575.4	6523.9	6358.6	6508.9	6098.9	5334.6
40°	6940.4	6826.6	6646.3	6251.3	6154.7	6195.5	6247.0	6699.9	7077.8	6659.1	5830.5
42.5°	8215.5	8189.8	7854.9	7118.5	6395.1	6450.9	6517.5	7412.6	7895.7	7502.8	6639.8
45°	9746.1	9782.6	9299.6	8430.2	7481.3	7528.6	7625.2	8464.5	9003.4	8814.5	7912.8
47.5°	11137.2	11109.3	10946.2	10042.4	9166.5	9061.3	9218.0	9814.8	10536.1	10566.2	9492.8
50°	12536.9	12685.0	12442.4	12088.2	11437.8	11216.6	11158.7	11450.6	12549.8	12405.9	11390.5
52.5°	14548.4	14625.7	14170.5	14080.4	14228.5	13511.5	13453.5	13524.4	14507.6	14013.8	12811.7
55°	15812.8	15767.7	15598.1	16302.2	16888.3	15993.1	15920.1	15634.6	16132.7	15149.5	14179.1
57.5°	16212.1	16276.5	16671.5	17944.5	19331.3	18571.3	18438.2	17626.8	17304.8	16207.8	15437.1
60°	16033.9	16152.0	17004.2	18897.6	20821.1	20707.3	20593.6	19230.4	18146.3	17092.2	16319.4
62.5°	14765.2	14930.5	16293.7	18728.0	21325.6	22036.2	21894.5	20230.8	18706.6	17521.6	16474.0
65°	12373.7	12496.1	14453.9	17188.8	20608.6	22491.3	22439.7	20544.2	18794.6	17128.7	15415.6
67.5°	8820.9	9237.4	11051.4	14486.1	18487.6	21714.1	21802.2	20168.5	17968.1	15430.7	12766.6
70°	5545.0	5828.4	7129.3	10370.8	14821.0	19050.1	19339.9	18449.0	15593.8	12028.1	8546.1
72.5°	2644.8	2855.1	3782.5	6564.7	10461.0	14988.4	15218.1	15145.2	12058.2	7577.9	4409.4
75°	1178.6	1258.0	1805.4	3351.0	6753.6	10074.6	10669.2	10768.0	7535.0	3707.4	1715.2
77.5°	601.1	603.2	845.8	1622.9	3372.5	6010.8	6128.9	6474.5	4085.2	1633.7	596.8
80°	319.9	341.3	448.7	766.4	1749.6	2960.3	2945.3	3237.3	1811.8	800.7	199.6
82.5°	143.8	158.9	253.3	401.4	854.4	1122.7	1210.8	1324.5	777.1	510.9	88.0
85°	42.9	51.5	124.5	201.8	309.1	324.2	362.8	468.0	440.1	362.8	45.1
87.5°	6.4	6.4	51.5	55.8	45.1	58.0	60.1	66.5	141.7	133.1	23.6
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°	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7	2614.7
2.5°	2619.0	2604.0	2550.3	2505.2	2466.6	2443.0	2415.1	2397.9	2389.3	2382.9	2385.0
5°	2629.7	2593.2	2500.9	2427.9	2372.1	2312.0	2271.2	2247.6	2236.9	2219.7	2219.7
7.5°	2689.8	2631.9	2503.1	2391.5	2294.9	2213.3	2136.0	2108.1	2088.8	2084.5	2080.2
10°	2775.7	2702.7	2526.7	2372.1	2234.7	2123.1	2013.6	1917.0	1841.9	1796.8	1790.4
12.5°	2883.1	2777.9	2563.2	2359.3	2183.2	1985.7	1695.9	1500.6	1369.6	1328.8	1335.3
15°	2981.8	2868.0	2599.7	2348.5	2088.8	1646.5	1318.1	1094.8	1028.3	1021.8	1024.0
17.5°	3099.9	2964.6	2642.6	2333.5	1829.0	1258.0	978.9	918.8	931.7	953.1	951.0
20°	3222.2	3067.7	2694.1	2243.3	1459.8	946.7	865.1	871.6	890.9	910.2	914.5
22.5°	3353.2	3185.7	2754.3	2026.5	1114.2	824.3	820.0	828.6	848.0	869.4	873.7
25°	3533.5	3333.9	2799.3	1743.1	843.7	762.1	770.7	785.7	802.9	826.5	830.8
27.5°	3765.4	3533.5	2822.9	1373.9	729.9	706.3	708.4	729.9	751.4	772.8	772.8
30°	4065.9	3771.8	2775.7	1039.0	674.1	652.6	644.0	656.9	684.8	706.3	708.4
32.5°	4334.2	3997.2	2651.2	794.3	633.3	603.2	581.8	583.9	594.6	607.5	609.7
35°	4602.6	4216.2	2438.7	667.6	590.3	556.0	523.8	506.6	498.0	491.6	498.0
37.5°	4946.1	4488.8	2155.3	607.5	553.9	510.9	465.8	429.3	399.3	380.0	384.3
40°	5388.3	4866.6	1820.4	568.9	519.5	468.0	407.9	360.7	309.1	292.0	283.4
42.5°	6118.2	5439.8	1468.4	536.7	485.2	422.9	347.8	283.4	236.1	219.0	223.3
45°	7271.0	6163.3	1131.3	502.3	450.8	373.5	292.0	223.3	184.6	176.0	180.3
47.5°	8799.4	7099.2	871.6	463.7	407.9	319.9	229.7	176.0	152.4	150.3	148.1
50°	10237.7	7970.8	727.7	420.8	356.4	266.2	188.9	148.1	133.1	131.0	131.0
52.5°	11538.7	8595.5	592.5	371.4	300.5	219.0	158.9	131.0	118.1	111.6	111.6
55°	12695.7	9003.4	480.9	311.3	236.1	173.9	137.4	118.1	103.0	94.5	92.3
57.5°	13569.5	9052.7	360.7	249.0	176.0	135.2	118.1	103.0	85.9	75.1	70.8
60°	13943.0	8625.5	266.2	188.9	131.0	107.3	94.5	83.7	64.4	53.7	51.5
62.5°	13567.3	7794.8	197.5	143.8	100.9	79.4	66.5	62.3	45.1	32.2	30.1
65°	12221.3	6594.7	156.7	109.5	75.1	58.0	42.9	40.8	27.9	15.0	12.9
67.5°	9791.2	5165.0	124.5	81.6	53.7	38.6	27.9	25.8	15.0	4.3	4.3
70°	6367.2	3301.7	100.9	60.1	34.3	25.8	17.2	12.9	8.6	2.1	0.0
72.5°	3149.2	1543.5	81.6	47.2	23.6	12.9	6.4	4.3	6.4	0.0	0.0
75°	1221.5	549.6	60.1	32.2	12.9	6.4	4.3	0.0	2.1	0.0	0.0
77.5°	405.7	182.5	36.5	17.2	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	150.3	70.8	19.3	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	60.1	27.9	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.1	17.2	8.6	6.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.5	12.9	8.6	6.4	4.3	2.1	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)