

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: P647636

Luminaire Tested: **GALN-SA8D-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647636
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-SA8D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA 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: 35383 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

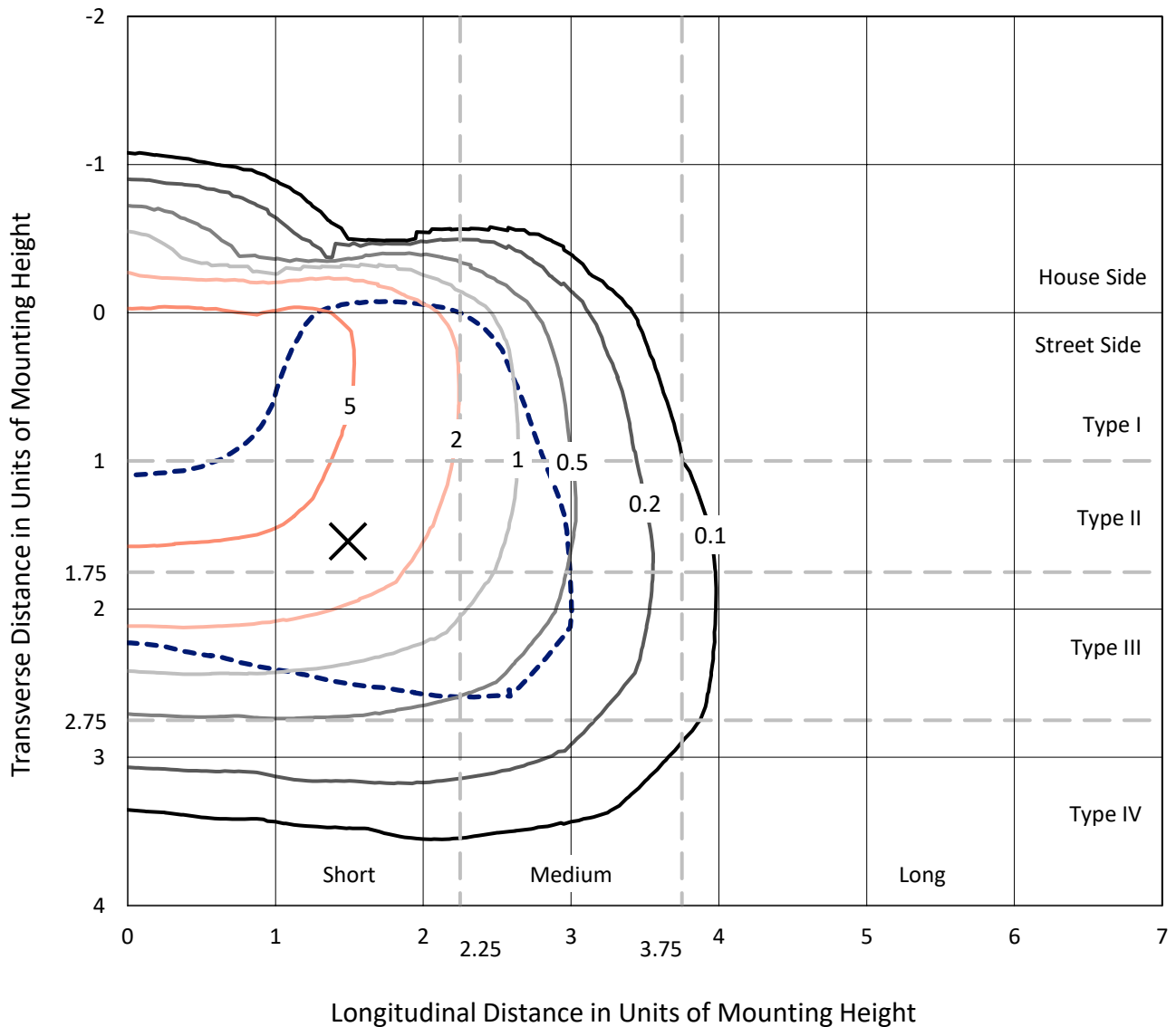
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

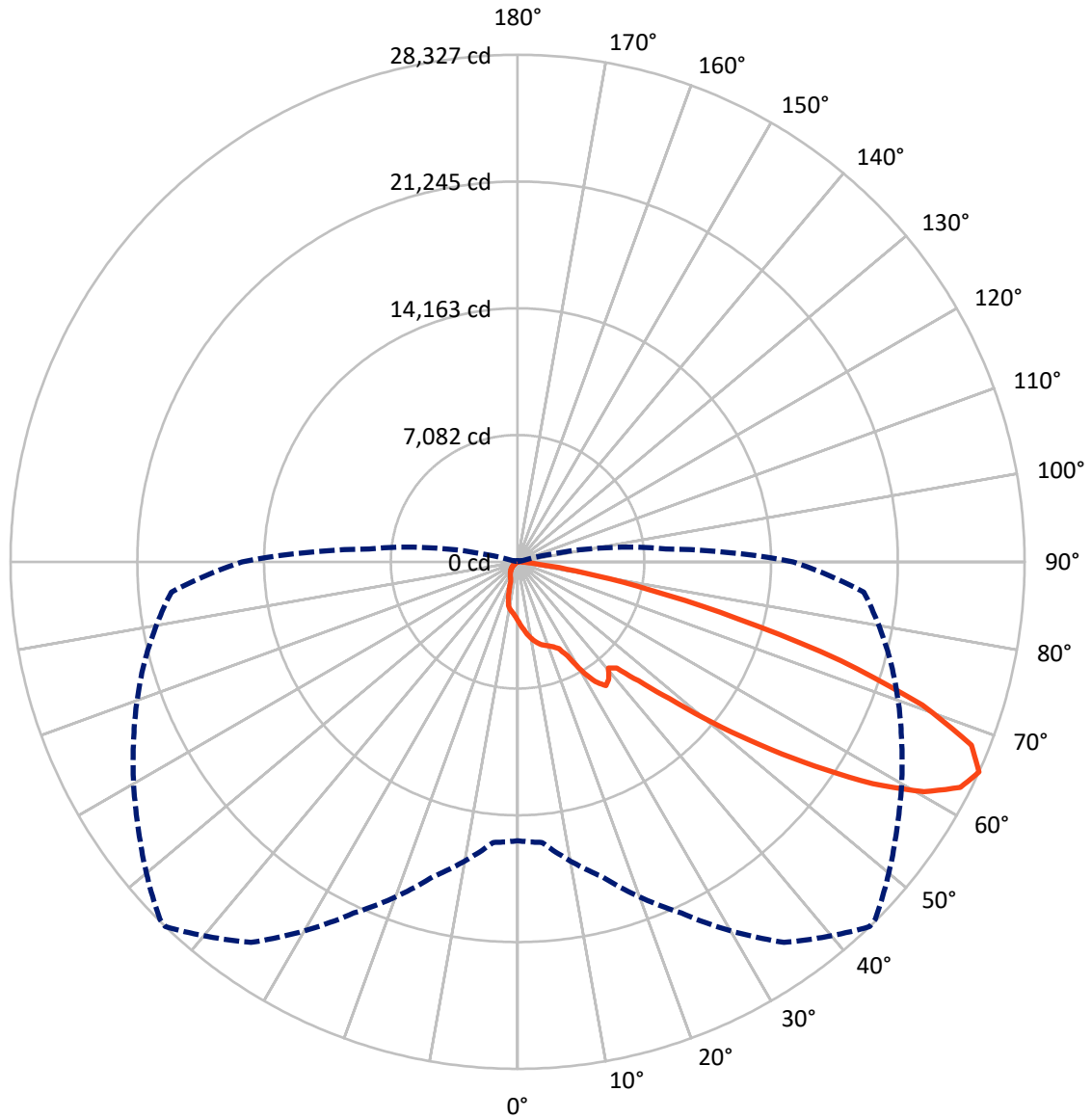
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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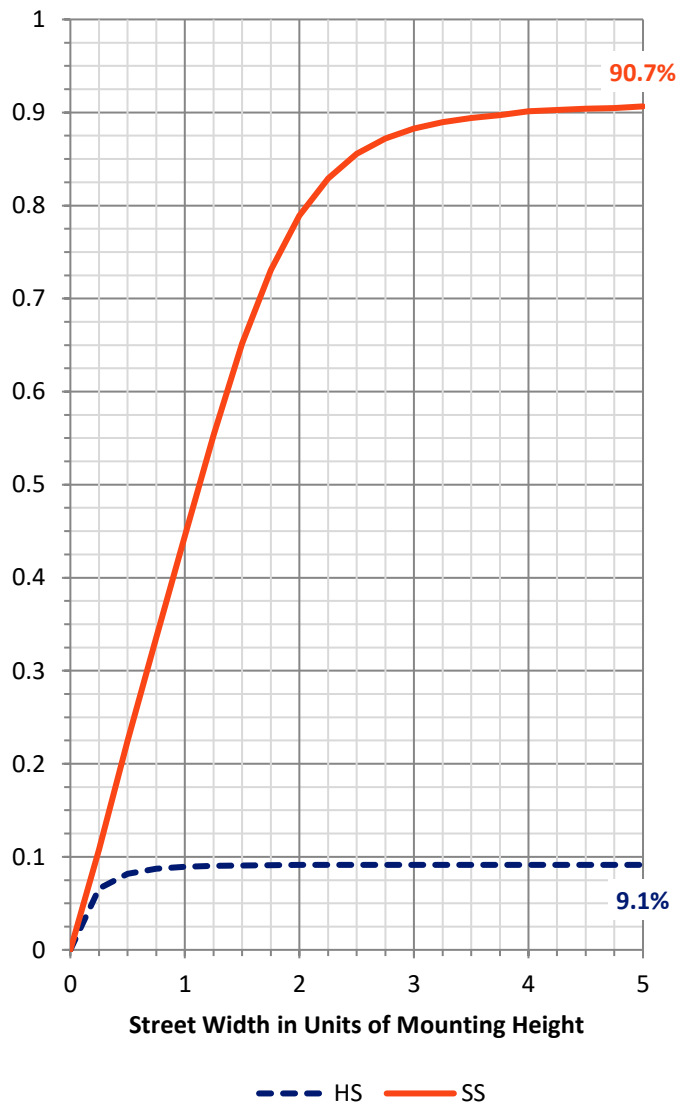
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3260.0	0.0	3260.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	32123.0	0.0	32123.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	35383.0	0.0	35383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.5	0.9
10°-20°	985.8	2.8
20°-30°	1671.5	4.7
30°-40°	2779.2	7.9
40°-50°	4852.5	13.7
50°-60°	9480.0	26.8
60°-70°	10999.0	31.1
70°-80°	4005.3	11.3
80°-90°	282.2	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°	35383.0	100.0
0°-180°	35383.0	100.0

Coefficient of Utilization

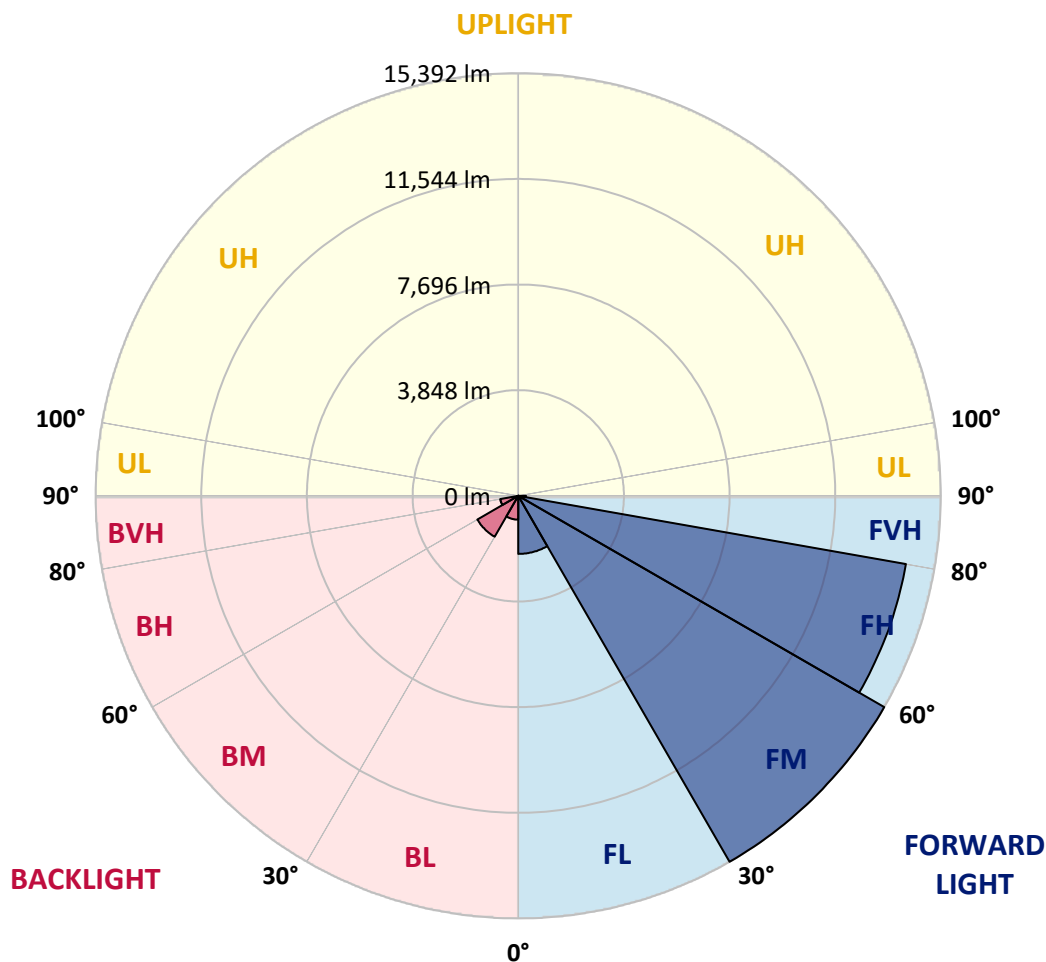


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.2	6.0			
FM (30°-60°)	15391.7	43.5			
FH (60°-80°)	14336.7	40.5			G5
FVH (80°-90°)	278.4	0.8			G3/500
BL (0°-30°)	868.6	2.5	B2/1000		
BM (30°-60°)	1720.0	4.9	B2/2500		
BH (60°-80°)	667.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1
2.5°	3706.8	3690.5	3682.4	3639.1	3606.7	3566.2	3566.2	3514.8	3455.3	3390.5	3331.0
5°	4120.5	4093.4	4058.2	4020.4	3944.7	3836.5	3836.5	3728.4	3604.0	3493.2	3371.5
7.5°	4517.9	4493.6	4434.1	4361.1	4236.7	4123.1	4115.1	3958.2	3809.5	3641.9	3468.8
10°	4866.7	4847.7	4796.3	4655.8	4526.0	4377.3	4374.5	4198.8	4025.8	3820.3	3606.7
12.5°	5110.0	5112.7	5045.1	4909.9	4742.3	4601.7	4590.9	4417.8	4236.7	4015.0	3752.8
15°	5283.1	5283.1	5212.7	5061.3	4909.9	4785.5	4774.7	4623.3	4436.8	4196.1	3912.3
17.5°	5331.7	5347.9	5272.2	5137.0	5015.3	4907.2	4904.5	4777.4	4628.7	4396.2	4074.5
20°	5312.7	5329.0	5269.5	5164.0	5080.3	5018.1	5009.9	4958.6	4820.7	4601.7	4247.5
22.5°	5272.2	5288.5	5245.2	5183.0	5142.4	5161.4	5147.8	5191.1	5118.1	4853.1	4453.0
25°	5280.3	5296.5	5264.1	5229.0	5264.1	5380.4	5415.5	5602.1	5537.1	5172.2	4674.7
27.5°	5534.5	5566.9	5520.9	5537.1	5661.6	5931.9	5999.5	6321.2	6034.7	5577.7	5020.8
30°	6099.6	6077.9	5991.4	6069.8	6502.4	7075.6	7056.6	7005.3	6556.5	6045.5	5431.7
32.5°	6613.2	6594.3	6588.9	6926.9	7710.9	7989.4	7975.9	7478.4	7024.2	6580.8	5837.3
35°	6821.4	6748.4	6732.2	7551.4	8862.7	8495.0	8411.2	7673.1	7592.0	7164.8	6250.9
37.5°	7448.7	7397.3	7145.9	7654.1	8403.1	8281.4	8216.6	8008.4	8197.6	7681.2	6718.7
40°	8741.0	8597.7	8370.7	7873.1	7751.5	7802.8	7867.7	8438.2	8914.1	8386.9	7343.2
42.5°	10347.0	10314.6	9892.8	8965.4	8054.3	8124.6	8208.4	9335.9	9944.2	9449.4	8362.5
45°	12274.8	12320.7	11712.4	10617.4	9422.4	9481.9	9603.5	10660.7	11339.3	11101.4	9965.8
47.5°	14026.7	13991.7	13786.1	12647.9	11544.8	11412.3	11609.7	12361.3	13269.7	13307.6	11955.7
50°	15789.6	15976.1	15670.6	15224.5	14405.3	14126.8	14053.8	14421.5	15805.8	15624.7	14345.8
52.5°	18322.9	18420.3	17847.1	17733.5	17920.1	17017.1	16944.0	17033.3	18271.5	17649.8	16135.7
55°	19915.4	19858.7	19645.1	20531.8	21270.0	20142.5	20050.6	19691.0	20318.3	19080.0	17857.9
57.5°	20418.3	20499.4	20996.9	22600.2	24346.8	23389.7	23222.1	22200.0	21794.5	20412.9	19442.3
60°	20193.9	20342.6	21416.0	23800.6	26223.1	26079.9	25936.6	24219.7	22854.4	21526.8	20553.5
62.5°	18596.0	18804.2	20521.0	23587.0	26858.5	27753.4	27575.0	25479.6	23560.0	22067.5	20748.2
65°	15584.1	15738.2	18204.0	21648.5	25955.5	28326.6	28261.8	25874.4	23670.9	21572.7	19415.3
67.5°	11109.5	11634.0	13918.6	18244.5	23284.2	27347.8	27458.7	25401.2	22630.0	19434.1	16078.9
70°	6983.7	7340.5	8979.0	13061.5	18666.3	23992.6	24357.6	23235.5	19639.7	15148.8	10763.4
72.5°	3331.0	3595.9	4763.9	8267.9	13175.1	18877.2	19166.5	19074.6	15186.7	9544.1	5553.4
75°	1484.3	1584.4	2273.8	4220.4	8505.8	12688.4	13437.4	13561.7	9490.0	4669.3	2160.2
77.5°	757.0	759.7	1065.3	2044.0	4247.5	7570.4	7719.0	8154.3	5145.2	2057.5	751.6
80°	402.9	429.9	565.1	965.2	2203.5	3728.4	3709.5	4077.2	2281.9	1008.5	251.4
82.5°	181.2	200.1	319.1	505.6	1076.1	1414.0	1524.9	1668.2	978.8	643.5	110.9
85°	54.1	64.9	156.8	254.2	389.3	408.3	457.0	589.4	554.3	457.0	56.8
87.5°	8.1	8.1	64.9	70.3	56.8	73.0	75.7	83.8	178.4	167.6	29.8
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°	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1
2.5°	3298.5	3279.6	3212.0	3155.2	3106.6	3076.8	3041.6	3020.0	3009.2	3001.1	3003.8
5°	3312.0	3266.0	3149.8	3057.8	2987.6	2911.9	2860.5	2830.8	2817.2	2795.6	2795.6
7.5°	3387.7	3314.8	3152.5	3011.9	2890.3	2787.5	2690.2	2655.0	2630.7	2625.3	2619.9
10°	3495.9	3403.9	3182.3	2987.6	2814.6	2673.9	2536.1	2414.4	2319.8	2263.0	2254.9
12.5°	3631.1	3498.6	3228.2	2971.3	2749.7	2500.9	2135.9	1889.8	1724.9	1673.6	1681.7
15°	3755.4	3612.1	3274.2	2957.9	2630.7	2073.7	1660.0	1378.9	1295.1	1286.9	1289.7
17.5°	3904.1	3733.8	3328.2	2938.9	2303.6	1584.4	1232.9	1157.2	1173.4	1200.4	1197.8
20°	4058.2	3863.6	3393.1	2825.4	1838.5	1192.4	1089.6	1097.7	1122.0	1146.4	1151.8
22.5°	4223.2	4012.2	3468.8	2552.3	1403.2	1038.3	1032.8	1043.7	1067.9	1095.0	1100.4
25°	4450.3	4198.8	3525.6	2195.4	1062.5	959.8	970.6	989.6	1011.2	1040.9	1046.3
27.5°	4742.3	4450.3	3555.4	1730.4	919.2	889.5	892.2	919.2	946.3	973.3	973.3
30°	5120.8	4750.4	3495.9	1308.5	848.9	821.9	811.1	827.3	862.5	889.5	892.2
32.5°	5458.8	5034.3	3339.0	1000.4	797.6	759.7	732.7	735.4	748.9	765.1	767.9
35°	5796.7	5310.1	3071.4	840.9	743.5	700.2	659.7	638.1	627.3	619.1	627.3
37.5°	6229.3	5653.4	2714.5	765.1	697.6	643.5	586.7	540.7	502.9	478.6	484.0
40°	6786.3	6129.2	2292.7	716.4	654.3	589.4	513.7	454.2	389.3	367.7	356.9
42.5°	7705.5	6851.2	1849.3	675.9	611.1	532.6	438.0	356.9	297.4	275.8	281.2
45°	9157.4	7762.3	1424.8	632.7	567.8	470.4	367.7	281.2	232.6	221.7	227.1
47.5°	11082.4	8941.2	1097.7	584.0	513.7	402.9	289.3	221.7	192.0	189.3	186.6
50°	12893.9	10038.8	916.6	529.9	448.8	335.3	238.0	186.6	167.6	164.9	164.9
52.5°	14532.3	10825.6	746.2	467.8	378.5	275.8	200.1	164.9	148.7	140.6	140.6
55°	15989.6	11339.3	605.7	392.0	297.4	219.0	173.0	148.7	129.7	118.9	116.3
57.5°	17090.1	11401.5	454.2	313.6	221.7	170.3	148.7	129.7	108.1	94.7	89.2
60°	17560.5	10863.4	335.3	238.0	164.9	135.1	118.9	105.5	81.1	67.6	64.9
62.5°	17087.3	9817.1	248.8	181.2	127.1	100.1	83.8	78.4	56.8	40.6	37.8
65°	15392.1	8305.8	197.4	137.9	94.7	73.0	54.1	51.4	35.2	18.9	16.2
67.5°	12331.5	6505.1	156.8	102.7	67.6	48.7	35.2	32.4	18.9	5.4	5.4
70°	8019.2	4158.3	127.1	75.7	43.2	32.4	21.6	16.2	10.8	2.7	0.0
72.5°	3966.3	1944.0	102.7	59.5	29.8	16.2	8.1	5.4	8.1	0.0	0.0
75°	1538.4	692.2	75.7	40.6	16.2	8.1	5.4	0.0	2.7	0.0	0.0
77.5°	511.0	229.8	46.0	21.6	10.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	189.3	89.2	24.4	13.5	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	75.7	35.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.8	21.6	10.8	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.0	16.2	10.8	8.1	5.4	2.7	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)