

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: P528181

Luminaire Tested: **GALN-SA3B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9047 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

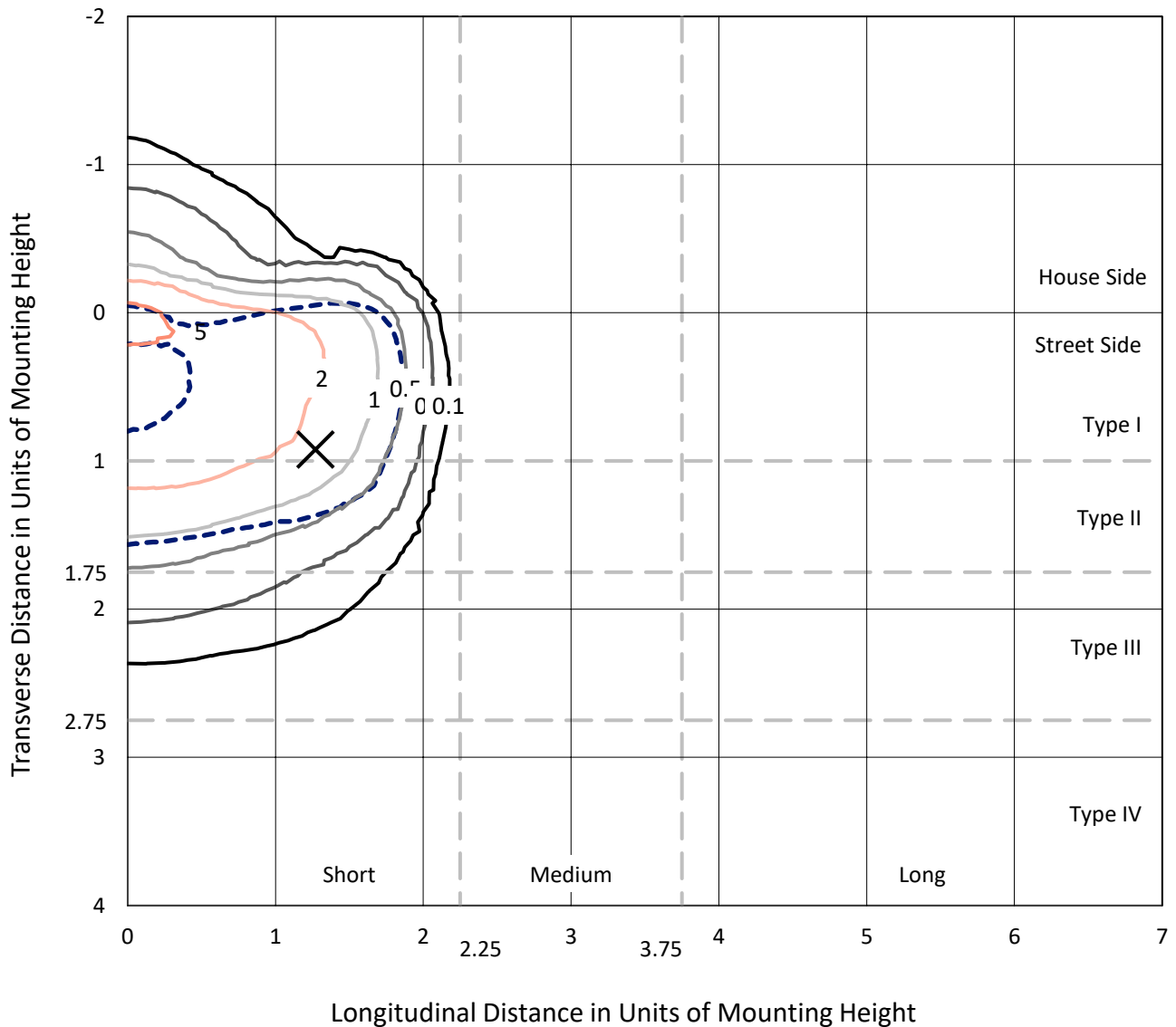
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

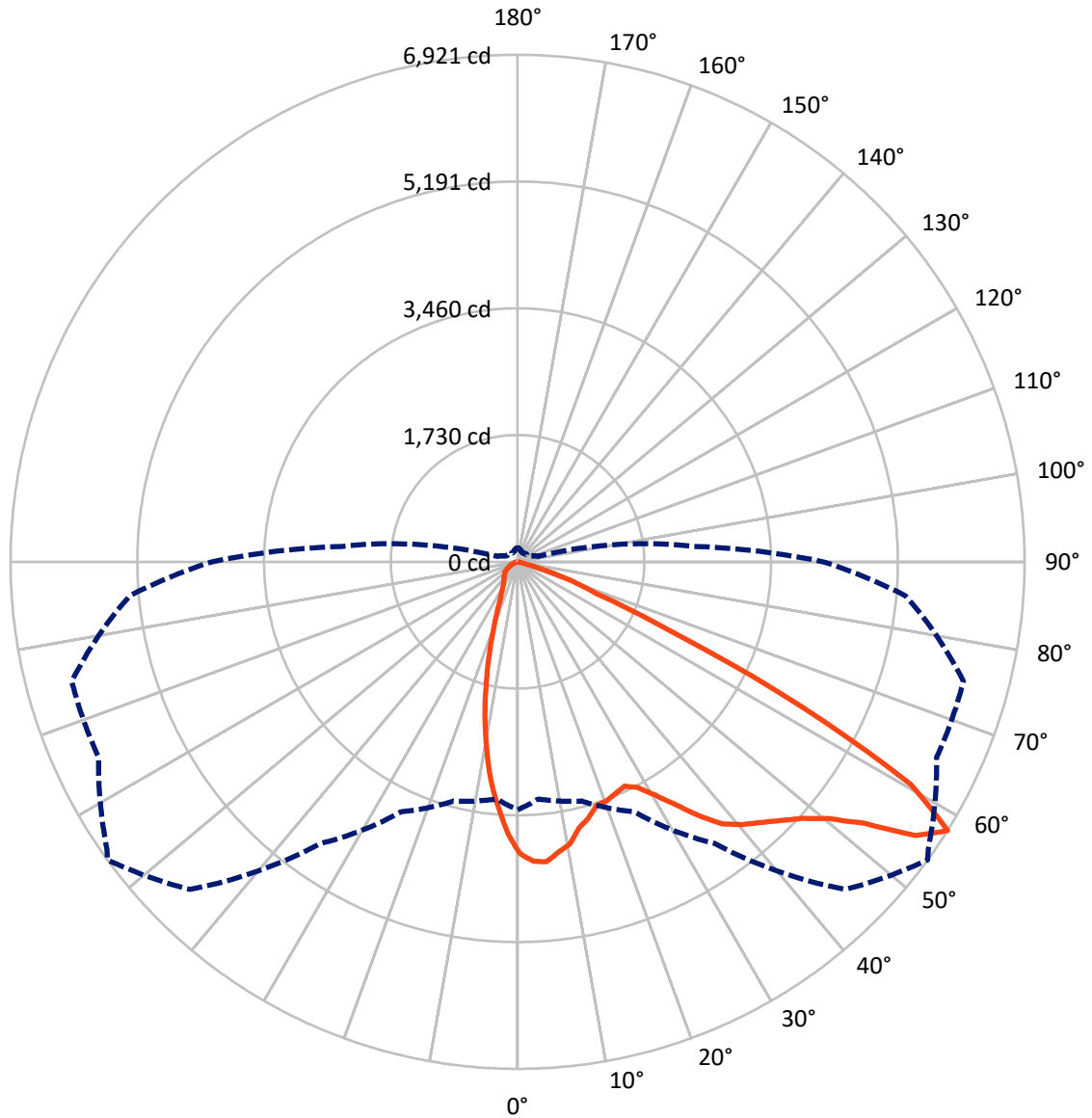
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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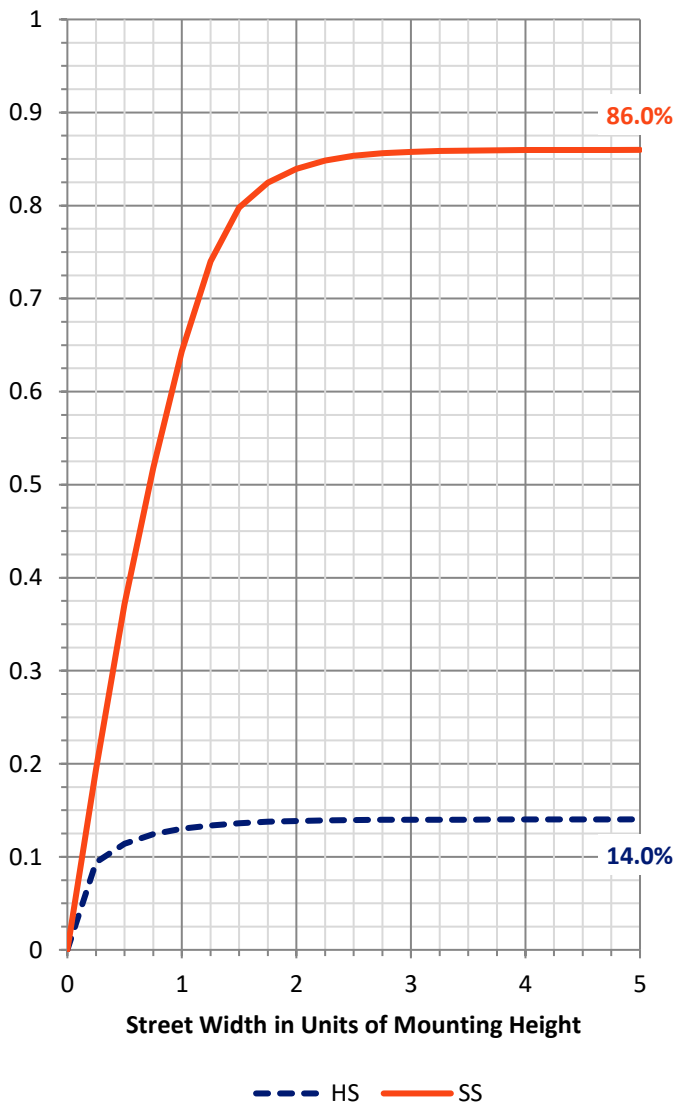
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.5	0.0	1278.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7768.5	0.0	7768.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	9047.0	0.0	9047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	3.7
10°-20°	712.0	7.9
20°-30°	943.6	10.4
30°-40°	1371.3	15.2
40°-50°	2033.4	22.5
50°-60°	2542.7	28.1
60°-70°	1003.0	11.1
70°-80°	99.9	1.1
80°-90°	7.8	0.1
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°	9047.0	100.0
0°-180°	9047.0	100.0

Coefficient of Utilization



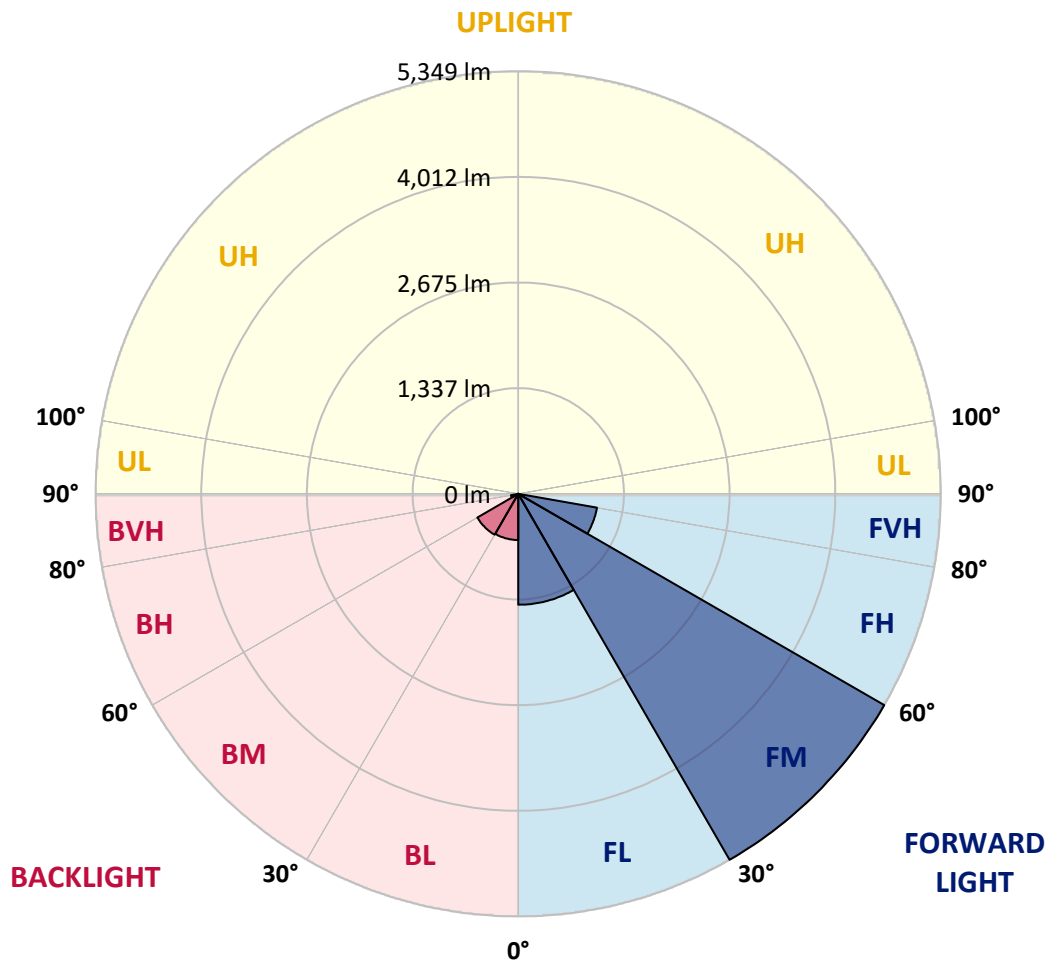
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1404.4	15.5			
FM (30°-60°)	5349.5	59.1			
FH (60°-80°)	1011.2	11.2			G1/1800
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	584.7	6.5	B2/1000		
BM (30°-60°)	597.9	6.6	B1/1000		
BH (60°-80°)	91.7	1.0	B0/110		G0/110
BVH (80°-90°)	4.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3
2.5°	4217.5	4173.7	4177.1	4162.0	4141.8	4156.9	4091.3	4106.4	4104.8	4015.6	3956.7
5°	4111.5	4158.6	4109.8	4150.2	4111.5	4153.6	4113.2	4082.9	4034.1	3968.5	3859.2
7.5°	3931.5	3886.1	3899.5	3950.0	3958.4	4052.6	4002.1	4040.8	4020.7	3891.1	3741.4
10°	3569.8	3559.7	3627.0	3694.3	3776.7	3877.7	3916.4	3894.5	3879.3	3830.6	3630.4
12.5°	3292.2	3320.8	3319.1	3430.2	3569.8	3627.0	3727.9	3724.6	3808.7	3717.8	3526.1
15°	3028.1	3043.2	3113.9	3182.9	3337.6	3500.8	3625.3	3642.1	3743.1	3679.2	3445.3
17.5°	2866.6	2844.7	2900.3	2982.7	3140.8	3354.5	3492.4	3532.8	3670.7	3657.3	3352.8
20°	2706.8	2706.8	2752.2	2849.8	2994.5	3235.0	3480.6	3468.9	3670.7	3632.0	3253.5
22.5°	2653.0	2679.9	2691.7	2765.7	2937.3	3144.2	3430.2	3452.0	3699.3	3620.3	3209.8
25°	2727.0	2691.7	2695.0	2753.9	2915.4	3100.4	3393.2	3441.9	3751.5	3679.2	3174.5
27.5°	2738.8	2774.1	2784.2	2824.6	2932.2	3113.9	3485.7	3584.9	3881.0	3817.1	3184.6
30°	2841.4	2876.7	2875.0	2944.0	3018.0	3223.3	3692.6	3712.8	4148.5	3990.4	3246.8
32.5°	2965.9	3002.9	3014.6	3095.4	3154.3	3423.4	3945.0	3997.1	4405.9	4262.9	3410.0
35°	3120.6	3107.2	3161.0	3241.8	3367.9	3716.2	4252.8	4340.3	4683.5	4616.2	3578.2
37.5°	3314.1	3297.3	3349.4	3480.6	3652.2	4062.7	4537.1	4594.3	4885.3	4944.2	3889.4
40°	3450.4	3457.1	3615.2	3791.9	3973.5	4392.4	4717.1	4772.6	5026.7	5250.4	4125.0
42.5°	3677.5	3719.5	3909.6	4125.0	4315.1	4639.7	4863.5	4917.3	5092.3	5496.0	4442.9
45°	4007.2	3988.7	4199.0	4439.5	4649.8	4897.1	5036.8	5018.2	5131.0	5739.9	4643.1
47.5°	4431.1	4434.5	4574.1	4779.4	4998.1	5120.9	5230.2	5164.6	5211.7	5997.3	4910.6
50°	4720.5	4745.7	4858.4	5068.7	5178.1	5366.5	5506.1	5465.7	5450.6	6152.1	5078.8
52.5°	4794.5	4870.2	4930.8	5193.2	5448.9	5746.7	5925.0	6010.8	5741.6	6204.3	5292.5
55°	4236.0	4303.3	4516.9	4876.9	5551.5	6348.9	6594.5	6596.2	6121.8	6436.4	5442.2
57.5°	3386.4	3250.2	3381.4	3763.3	4693.6	6323.7	6920.9	6841.8	6311.9	6300.1	5312.6
60°	2341.7	2308.1	2316.5	2467.9	3248.5	5030.0	6167.2	6269.9	5812.3	5460.7	4205.7
62.5°	1855.6	1827.0	1789.9	1773.1	2017.1	3134.1	4350.4	4495.1	4064.4	3541.2	2493.1
65°	1453.5	1436.7	1441.7	1509.0	1507.3	1778.2	2378.7	2319.9	1857.2	1372.7	783.9
67.5°	980.8	1006.0	1026.2	1229.7	1334.0	1238.2	1149.0	1115.4	603.9	254.0	173.3
70°	551.8	555.2	577.0	768.8	1012.7	960.6	792.4	792.4	301.1	92.5	99.3
72.5°	301.1	291.0	270.8	331.4	450.9	457.6	353.3	307.9	89.2	60.6	55.5
75°	146.4	144.7	124.5	102.6	97.6	80.7	62.2	57.2	40.4	38.7	33.6
77.5°	30.3	28.6	15.1	15.1	16.8	18.5	23.6	23.6	28.6	28.6	23.6
80°	0.0	0.0	1.7	6.7	11.8	16.8	20.2	20.2	23.6	23.6	18.5
82.5°	0.0	0.0	1.7	5.0	10.1	15.1	18.5	20.2	23.6	25.2	20.2
85°	0.0	0.0	0.0	3.4	8.4	11.8	10.1	10.1	8.4	6.7	3.4
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3	3985.3
2.5°	3926.4	3923.1	3845.7	3802.0	3722.9	3653.9	3598.4	3558.0	3558.0	3532.8	3509.2
5°	3815.4	3786.8	3622.0	3516.0	3366.2	3255.2	3179.5	3120.6	3028.1	3053.3	2954.1
7.5°	3677.5	3605.1	3386.4	3224.9	3018.0	2859.9	2698.4	2555.4	2417.4	2355.2	2388.8
10°	3529.4	3403.3	3108.9	2853.1	2595.8	2306.4	2118.0	1889.2	1747.9	1739.5	1702.5
12.5°	3373.0	3230.0	2871.7	2518.4	2180.2	1832.0	1544.3	1330.7	1234.8	1128.8	1149.0
15°	3255.2	3043.2	2607.5	2181.9	1732.8	1381.2	1091.8	926.9	836.1	810.9	802.4
17.5°	3127.4	2900.3	2338.4	1823.6	1359.3	994.2	785.6	706.6	671.2	671.2	666.2
20°	2994.5	2738.8	2070.9	1490.5	1019.5	741.9	629.2	603.9	602.3	600.6	600.6
22.5°	2907.0	2553.7	1828.6	1184.3	768.8	593.8	546.7	536.6	543.4	563.6	563.6
25°	2814.5	2375.4	1561.2	913.5	595.5	509.7	482.8	489.5	506.4	524.9	518.1
27.5°	2720.2	2259.3	1308.8	716.7	487.9	445.8	435.7	450.9	469.4	486.2	481.1
30°	2698.4	2134.8	1069.9	543.4	418.9	388.6	395.3	408.8	427.3	434.0	440.8
32.5°	2732.0	2037.2	876.5	445.8	365.1	356.6	356.6	363.4	375.1	390.3	385.2
35°	2827.9	1981.7	693.1	386.9	334.8	326.4	324.7	331.4	338.1	343.2	338.1
37.5°	2974.3	1938.0	566.9	343.2	314.6	301.1	297.8	296.1	302.8	304.5	307.9
40°	3161.0	1961.5	481.1	316.3	294.4	279.3	269.2	269.2	269.2	274.2	275.9
42.5°	3362.9	1993.5	415.5	301.1	275.9	257.4	247.3	243.9	247.3	254.0	252.3
45°	3574.8	2055.7	373.5	277.6	259.1	235.5	222.1	218.7	227.1	240.6	238.9
47.5°	3773.4	2144.9	341.5	262.4	242.2	220.4	203.6	200.2	215.3	233.8	235.5
50°	3971.9	2299.7	329.7	250.7	230.5	205.2	190.1	186.7	203.6	227.1	232.2
52.5°	4200.7	2466.2	321.3	235.5	217.0	193.5	176.6	173.3	191.8	222.1	223.7
55°	4350.4	2607.5	314.6	208.6	191.8	175.0	161.5	159.8	180.0	206.9	213.6
57.5°	4175.4	2410.7	291.0	181.7	163.2	154.8	143.0	143.0	159.8	185.1	190.1
60°	3166.1	1586.4	206.9	146.4	137.9	132.9	127.9	127.9	141.3	159.8	161.5
62.5°	1853.9	854.6	132.9	117.8	117.8	112.7	104.3	104.3	117.8	127.9	129.5
65°	550.1	274.2	107.7	100.9	99.3	90.8	82.4	80.7	90.8	95.9	94.2
67.5°	158.1	126.2	89.2	84.1	82.4	69.0	63.9	62.2	63.9	60.6	58.9
70°	94.2	85.8	69.0	70.7	62.2	50.5	45.4	43.7	40.4	35.3	32.0
72.5°	52.2	52.2	50.5	53.8	43.7	33.6	28.6	23.6	18.5	15.1	13.5
75°	32.0	33.6	35.3	37.0	28.6	21.9	18.5	11.8	6.7	3.4	3.4
77.5°	21.9	23.6	25.2	26.9	23.6	20.2	15.1	8.4	1.7	0.0	0.0
80°	16.8	18.5	21.9	23.6	25.2	26.9	20.2	8.4	1.7	0.0	0.0
82.5°	18.5	20.2	25.2	23.6	23.6	23.6	18.5	8.4	1.7	0.0	0.0
85°	3.4	5.0	8.4	8.4	11.8	15.1	11.8	3.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)