

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: P648126

Luminaire Tested: **GALN-SA8A-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22638.1 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244
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

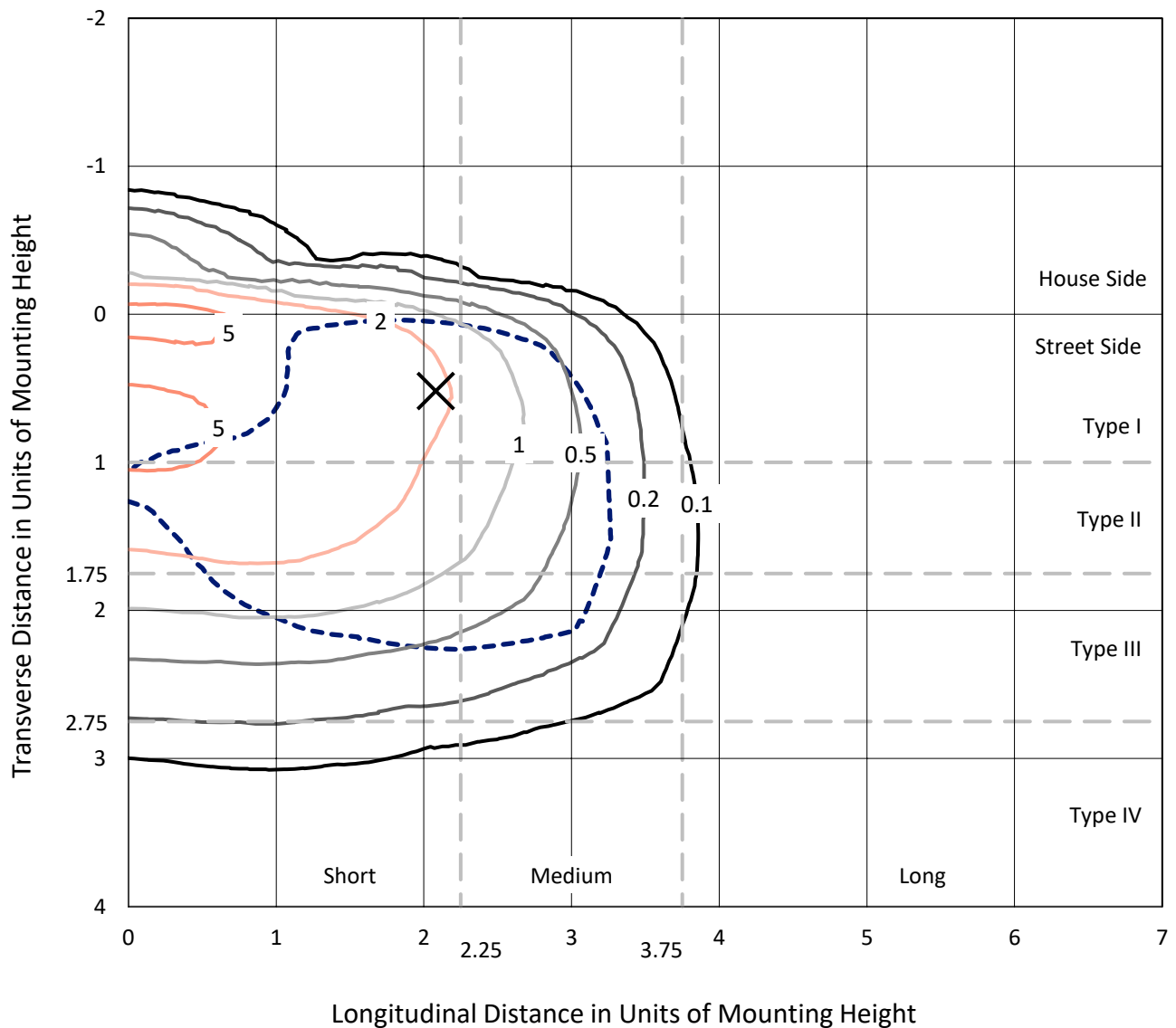




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Iso-Footcandle Lines of Horizontal Illumination

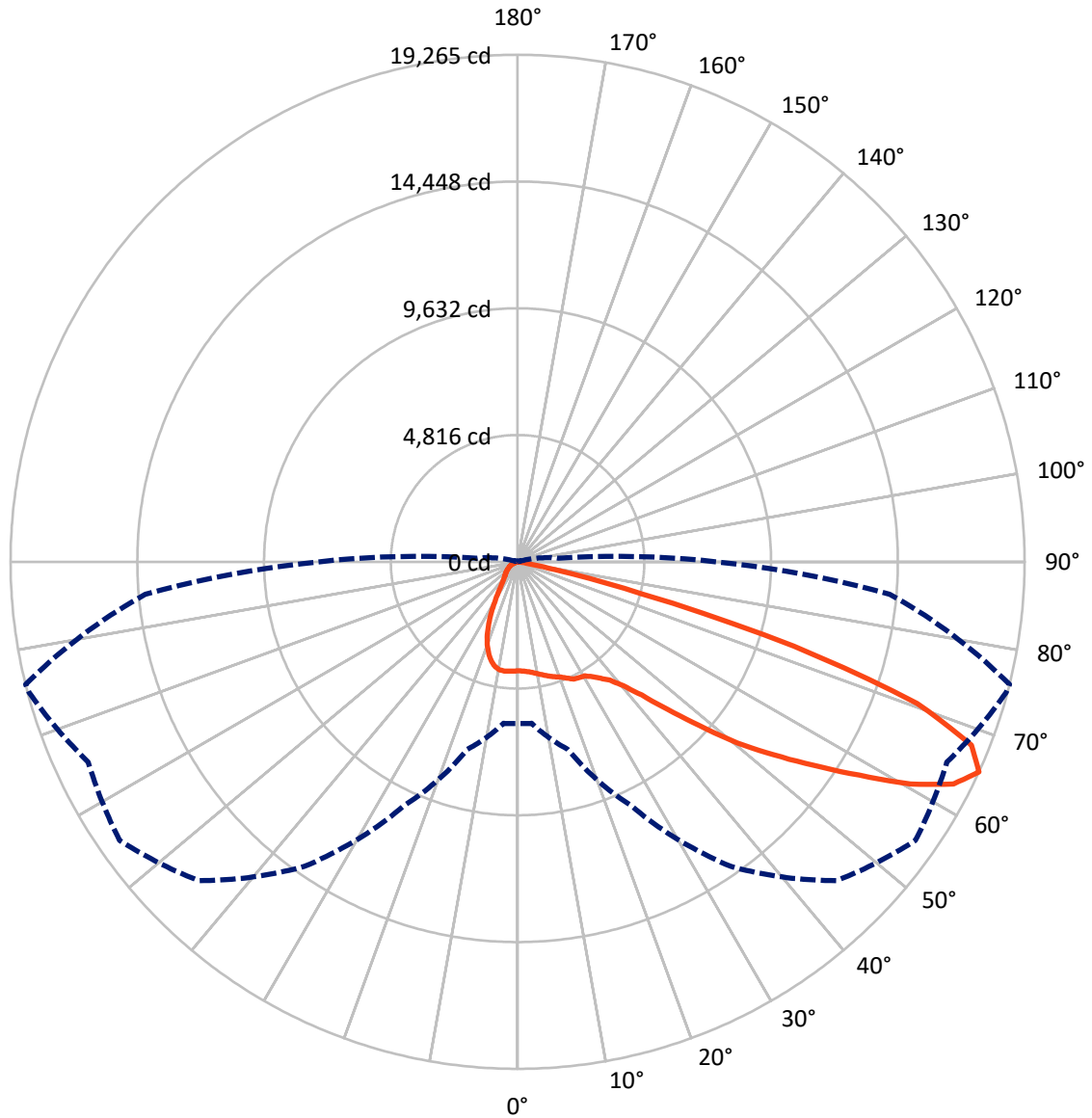
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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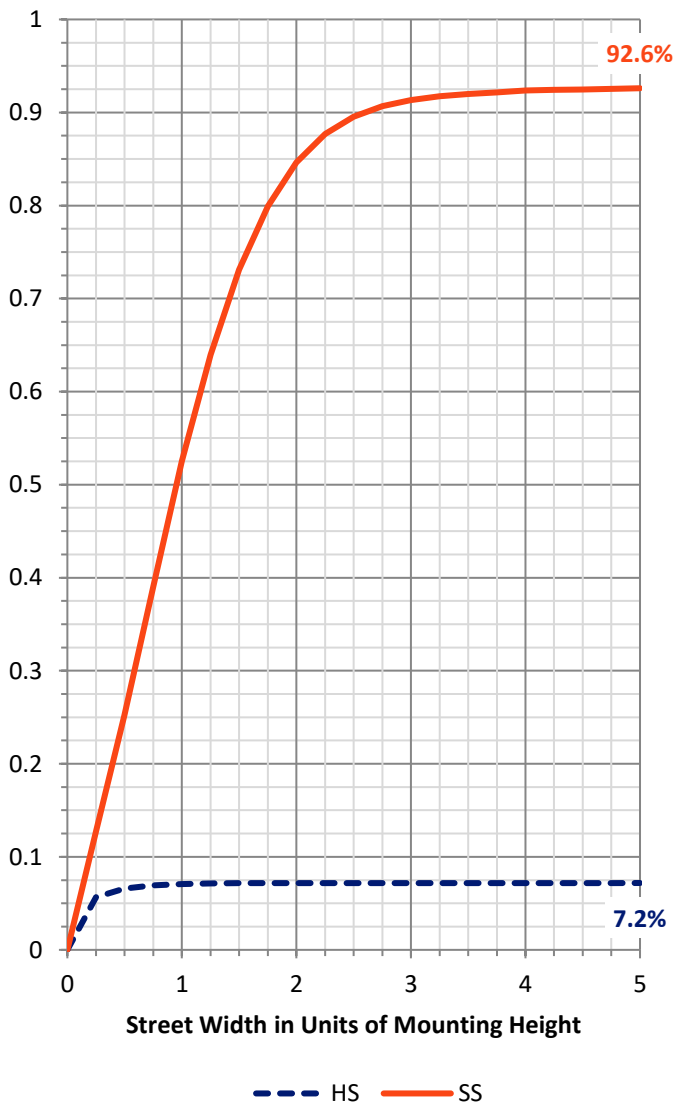
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.9	0.0	1634.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21003.2	0.0	21003.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	22638.1	0.0	22638.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.5
10°-20°	759.6	3.4
20°-30°	1224.0	5.4
30°-40°	2128.2	9.4
40°-50°	3516.7	15.5
50°-60°	5432.6	24.0
60°-70°	6634.0	29.3
70°-80°	2517.8	11.1
80°-90°	84.0	0.4
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°	22638.1	100.0
0°-180°	22638.1	100.0

Coefficient of Utilization



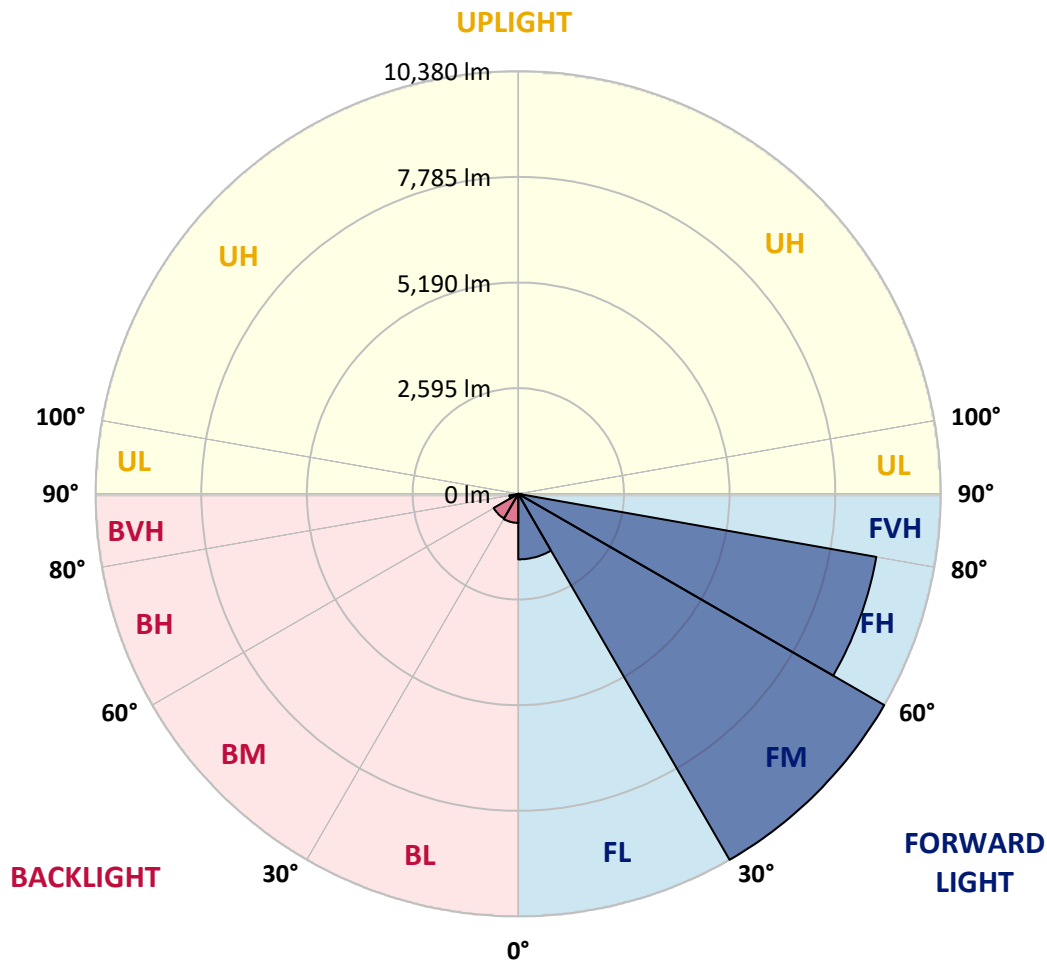
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.4	7.1			
FM (30°-60°)	10379.9	45.9			
FH (60°-80°)	8930.0	39.4			G4/12000
FVH (80°-90°)	82.9	0.4			G1/100
BL (0°-30°)	714.3	3.2	B2/1000		
BM (30°-60°)	697.7	3.1	B1/1000		
BH (60°-80°)	221.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2
2.5°	3957.4	3959.0	3968.6	3992.6	4029.3	4059.7	4085.3	4126.9	4155.6	4158.8	4168.4
5°	3684.1	3664.9	3684.1	3746.4	3802.4	3887.1	3991.0	4094.9	4187.6	4194.0	4238.7
7.5°	3377.2	3393.2	3423.6	3487.5	3593.0	3722.5	3872.7	4058.1	4233.9	4249.9	4337.8
10°	3065.6	3100.8	3150.2	3247.8	3394.9	3562.6	3767.2	4032.5	4307.4	4329.8	4481.7
12.5°	2777.8	2793.8	2854.6	2985.7	3167.9	3404.4	3687.3	4018.1	4388.9	4416.1	4635.1
15°	2557.3	2578.1	2630.8	2749.1	2952.1	3255.8	3621.8	4013.3	4468.9	4507.3	4788.5
17.5°	2515.8	2528.5	2550.9	2630.8	2808.2	3137.5	3562.6	4011.8	4545.6	4592.0	4930.8
20°	2686.8	2675.6	2653.2	2645.2	2742.7	3046.4	3519.5	4024.5	4619.2	4671.8	5081.0
22.5°	3115.1	3129.5	2998.4	2843.4	2811.4	3032.0	3513.1	4085.3	4735.8	4798.1	5248.8
25°	4024.5	3914.3	3709.7	3338.9	3059.2	3119.9	3585.0	4229.1	4871.7	4940.4	5400.7
27.5°	5029.9	4996.3	4678.3	4067.7	3546.7	3305.3	3712.9	4339.4	4916.4	4986.8	5487.0
30°	6017.7	6057.6	5693.2	5018.7	4254.7	3648.9	3832.8	4381.0	4956.4	5029.9	5597.3
32.5°	6933.5	6981.5	6661.8	5993.7	5089.0	4243.5	4038.9	4542.4	5124.2	5199.3	5781.1
35°	7654.3	7660.7	7419.4	6887.1	6000.1	4965.9	4484.9	4825.3	5351.2	5439.0	5976.1
37.5°	8316.0	8306.5	8023.6	7564.8	6759.2	5683.6	5045.9	5151.4	5610.1	5701.2	6257.4
40°	8806.7	8813.1	8722.0	8290.5	7467.3	6346.9	5490.2	5456.6	6044.8	6187.1	6666.5
42.5°	9134.4	9193.5	9238.2	9019.3	8357.6	7163.7	6172.7	6110.4	6799.3	6917.5	7245.2
45°	9399.7	9505.2	9728.9	9717.7	9212.7	8165.8	7109.3	6981.5	7868.5	7994.7	7982.0
47.5°	9593.1	9700.2	10070.9	10294.7	10016.6	9137.5	8287.3	8176.9	9145.5	9283.0	8795.5
50°	9692.2	9820.1	10293.2	10726.3	10644.8	10074.2	9629.8	9636.2	10688.0	10820.6	9738.6
52.5°	9460.4	9626.7	10411.4	11191.4	11349.6	10970.8	10887.7	11098.7	12060.9	12174.3	10590.4
55°	8720.4	8929.8	10250.0	11587.8	12166.3	12028.9	12316.6	12637.9	13561.7	13635.2	11464.7
57.5°	8252.1	8474.3	9773.7	11925.0	13147.7	13358.7	13814.2	14049.2	15110.5	15297.5	12468.4
60°	7857.3	8031.5	9382.1	11997.0	14145.1	14985.8	15428.5	15671.4	17022.0	17143.5	13572.9
62.5°	7200.4	7400.2	8720.4	11495.1	14647.0	16288.4	17205.9	17097.2	18500.5	18585.2	14250.6
65°	6143.9	6161.5	7377.8	10234.0	14129.1	17133.9	18454.1	17998.6	19206.9	19264.5	14197.8
67.5°	4585.6	4755.0	5675.6	8044.3	11934.6	16411.4	18858.5	18022.5	18761.0	18601.2	13071.0
70°	2953.7	3083.1	3847.1	5578.1	8605.3	13695.9	17517.5	16787.1	16465.9	16111.0	10699.1
72.5°	1363.4	1529.6	2285.6	3187.0	5103.4	9756.1	14220.2	13638.4	11851.5	10975.6	6800.8
75°	594.6	636.1	1128.4	1681.4	2392.7	5159.3	9375.7	8466.3	5352.7	4889.2	2721.9
77.5°	362.8	390.0	591.4	901.5	939.8	1966.0	5050.7	3693.7	1654.2	1459.3	738.4
80°	246.2	276.5	429.9	471.5	321.3	548.3	1895.6	986.2	334.0	319.7	158.2
82.5°	119.9	151.8	318.1	263.7	139.1	175.8	551.4	210.9	97.5	91.1	55.9
85°	17.6	30.4	179.0	172.7	62.3	41.6	97.5	52.8	33.6	31.9	25.6
87.5°	0.0	0.0	60.8	27.2	6.4	6.4	11.2	11.2	12.8	11.2	12.8
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°	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2	4141.2
2.5°	4173.2	4181.2	4150.8	4107.7	4061.3	4015.0	3949.5	3890.3	3855.1	3875.9	3824.8
5°	4248.3	4241.9	4162.0	4031.0	3856.7	3647.4	3439.6	3262.1	3204.6	3118.3	3108.7
7.5°	4352.2	4334.6	4165.2	3864.7	3471.5	3078.4	2694.8	2440.6	2295.2	2172.1	2175.3
10°	4497.6	4446.5	4128.4	3572.2	2924.9	2331.9	1842.9	1507.2	1361.8	1315.4	1278.6
12.5°	4647.9	4548.8	4026.2	3177.4	2277.6	1593.5	1120.4	915.8	826.3	797.6	794.4
15°	4782.2	4625.5	3847.1	2702.8	1655.9	1018.1	764.0	696.9	685.7	687.2	685.7
17.5°	4914.8	4686.3	3599.4	2199.3	1125.2	730.5	656.9	640.9	645.7	652.1	650.5
20°	5025.1	4699.0	3283.0	1678.2	796.0	640.9	616.9	613.7	618.6	623.3	623.3
22.5°	5144.9	4708.6	2907.4	1162.0	650.5	596.2	583.4	583.4	589.8	596.2	597.7
25°	5234.5	4655.9	2458.2	834.3	573.8	553.0	546.6	548.3	554.6	557.8	556.2
27.5°	5248.8	4507.3	1981.9	639.3	521.1	500.3	493.9	500.3	492.3	497.0	493.9
30°	5261.7	4318.6	1499.2	538.6	473.1	441.1	431.5	422.0	415.5	407.6	406.0
32.5°	5301.6	4096.5	1094.9	484.3	428.4	393.2	370.8	343.7	322.8	316.5	314.8
35°	5319.2	3829.6	804.0	441.1	388.4	350.0	310.1	271.7	241.3	230.1	238.1
37.5°	5386.3	3570.6	623.3	409.2	353.2	305.3	254.2	206.2	177.4	171.0	174.2
40°	5523.8	3289.3	522.7	382.0	322.8	263.7	201.4	155.0	135.9	129.4	127.9
42.5°	5744.3	3009.6	465.1	356.4	292.5	222.1	158.2	121.4	105.5	100.7	100.7
45°	6012.9	2741.1	425.2	329.3	260.5	179.0	124.7	97.5	87.9	84.7	84.7
47.5°	6366.1	2506.1	391.6	302.1	225.3	142.3	100.7	84.7	78.3	79.9	81.5
50°	6724.1	2331.9	354.9	271.7	185.4	116.7	86.3	75.1	73.5	75.1	75.1
52.5°	6994.2	2229.7	305.3	230.1	145.5	97.5	76.7	70.3	68.7	65.5	65.5
55°	7358.6	2207.3	243.0	187.0	115.1	81.5	68.7	64.0	59.1	55.9	54.3
57.5°	7826.9	2232.9	187.0	145.5	89.5	67.1	60.8	52.8	46.4	39.9	39.9
60°	8117.8	2175.3	145.5	111.9	65.5	54.3	46.4	38.4	30.4	25.6	24.0
62.5°	8025.1	1932.4	115.1	83.1	46.4	39.9	30.4	25.6	17.6	12.8	11.2
65°	7547.3	1560.0	92.7	57.6	33.6	24.0	16.0	16.0	8.0	1.6	0.0
67.5°	6605.9	1155.6	73.5	38.4	19.2	11.2	8.0	4.8	0.0	0.0	0.0
70°	5376.7	834.3	57.6	24.0	11.2	8.0	3.2	1.6	0.0	0.0	0.0
72.5°	3414.0	477.9	44.8	14.4	8.0	3.2	0.0	0.0	0.0	0.0	0.0
75°	1320.2	187.0	30.4	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	374.0	87.9	17.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	97.5	38.4	9.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.4	16.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.2	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	1.6	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)