

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: P533323

Luminaire Tested: **GALN-SA8D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42439 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

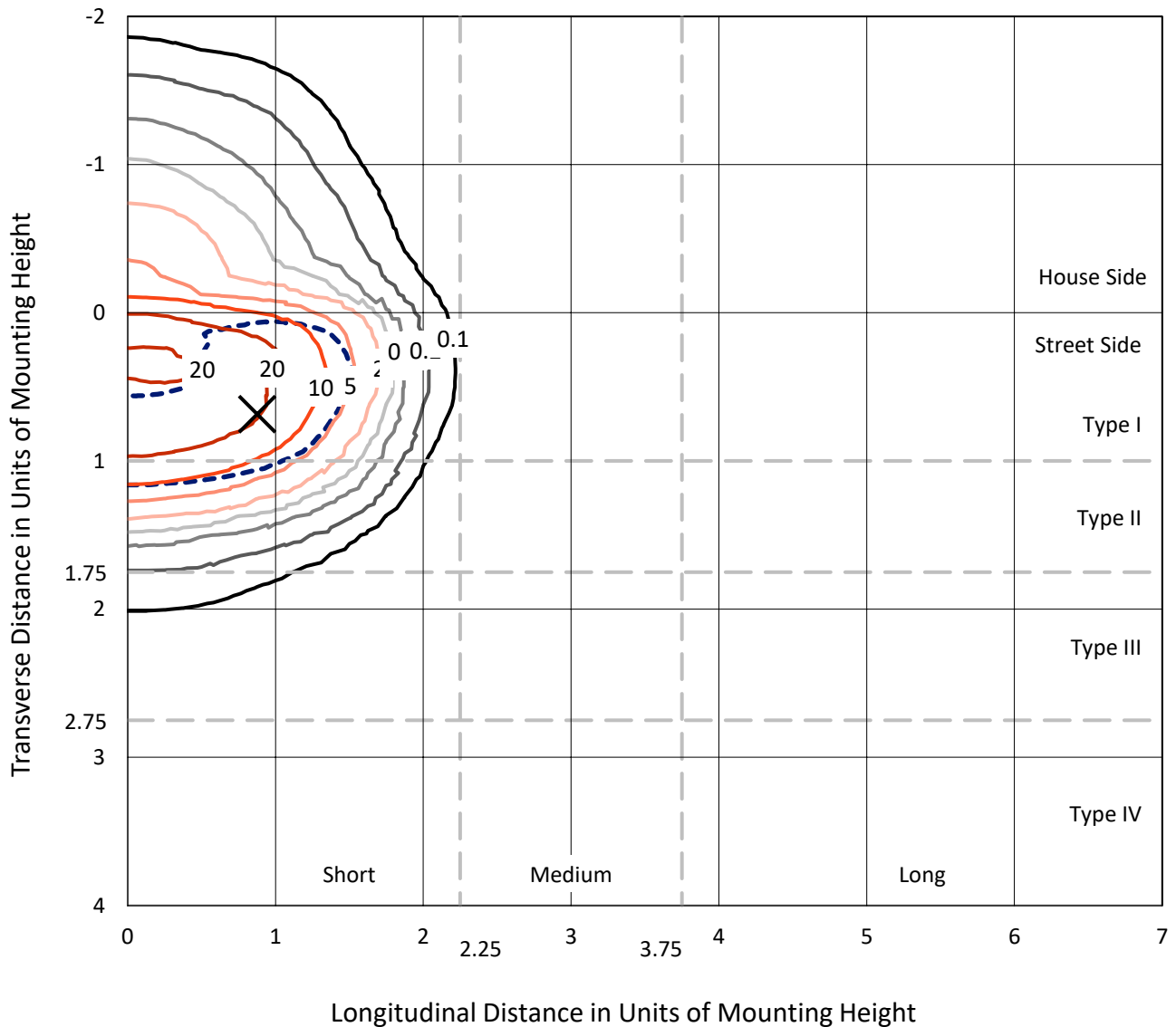
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

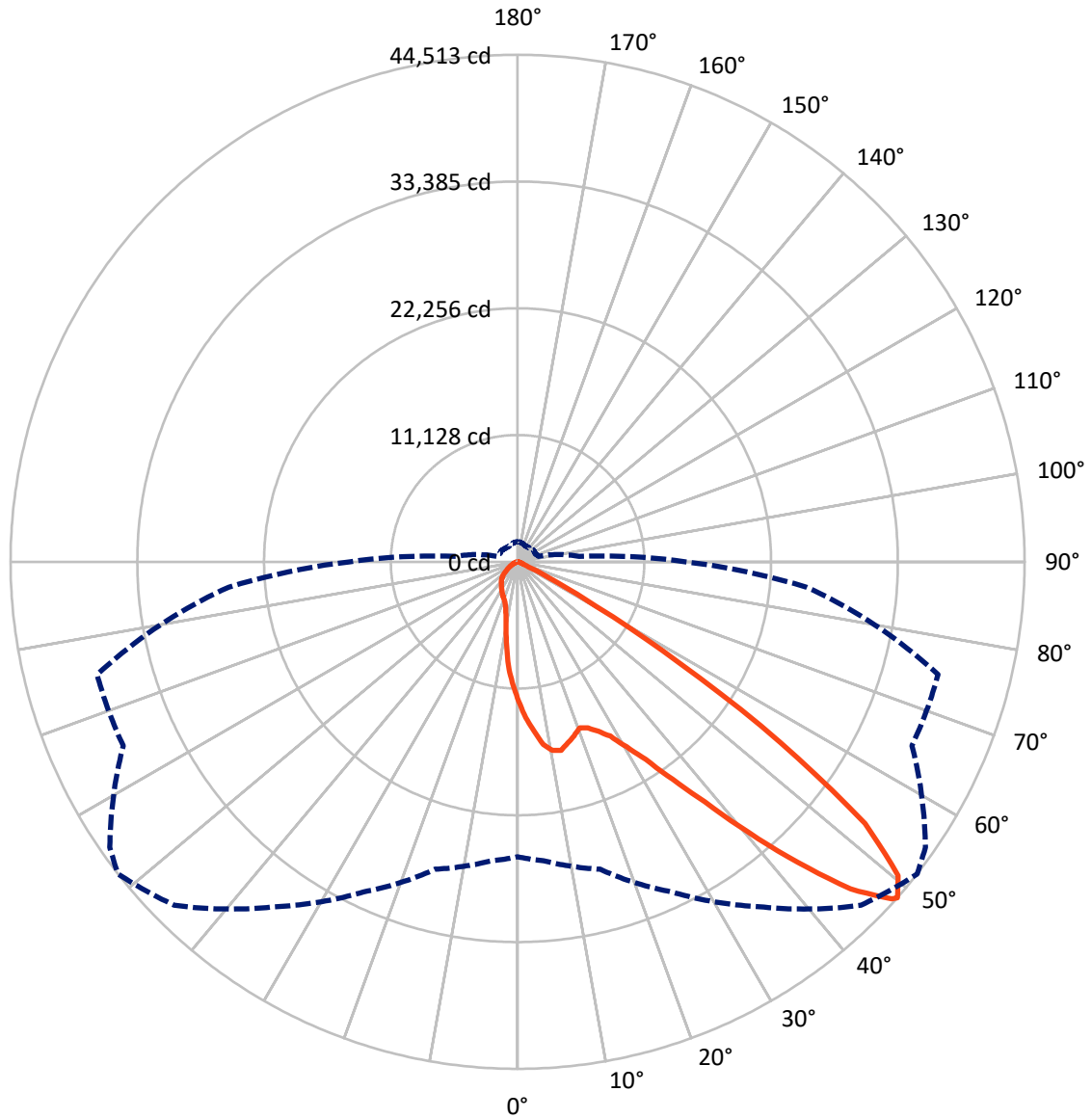
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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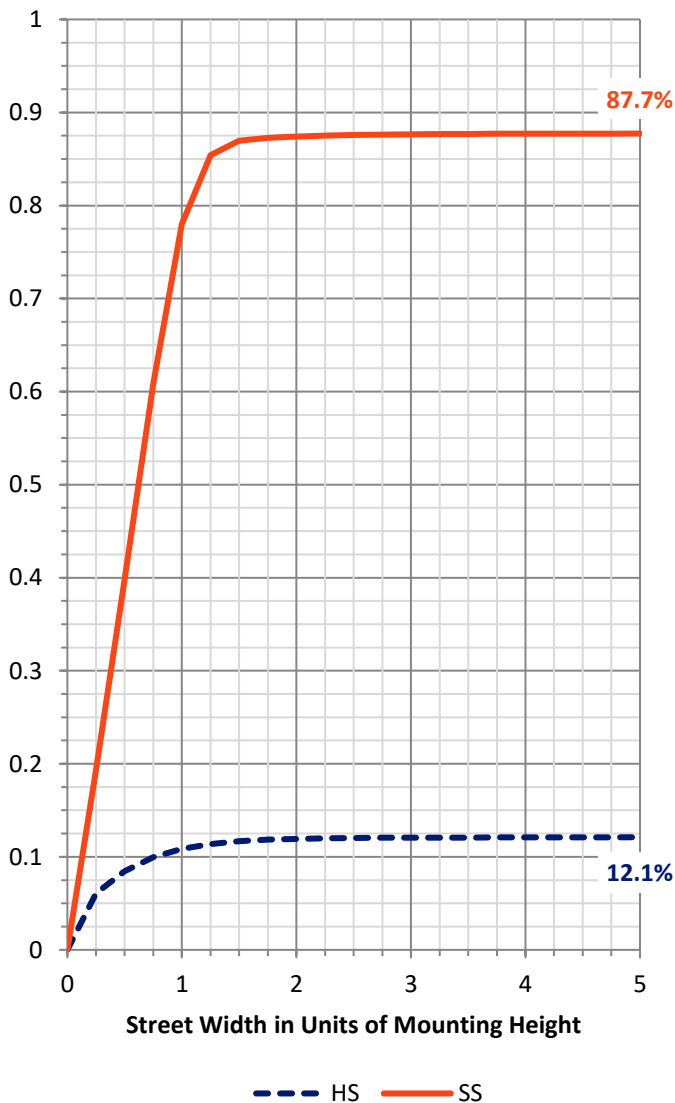
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5167.3	0.0	5167.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	37271.7	0.0	37271.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	42439.0	0.0	42439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1121.7	2.6
10°-20°	2931.5	6.9
20°-30°	5005.3	11.8
30°-40°	9217.3	21.7
40°-50°	14314.4	33.7
50°-60°	8614.9	20.3
60°-70°	996.4	2.3
70°-80°	192.9	0.5
80°-90°	44.6	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°	42439.0	100.0
0°-180°	42439.0	100.0

Coefficient of Utilization



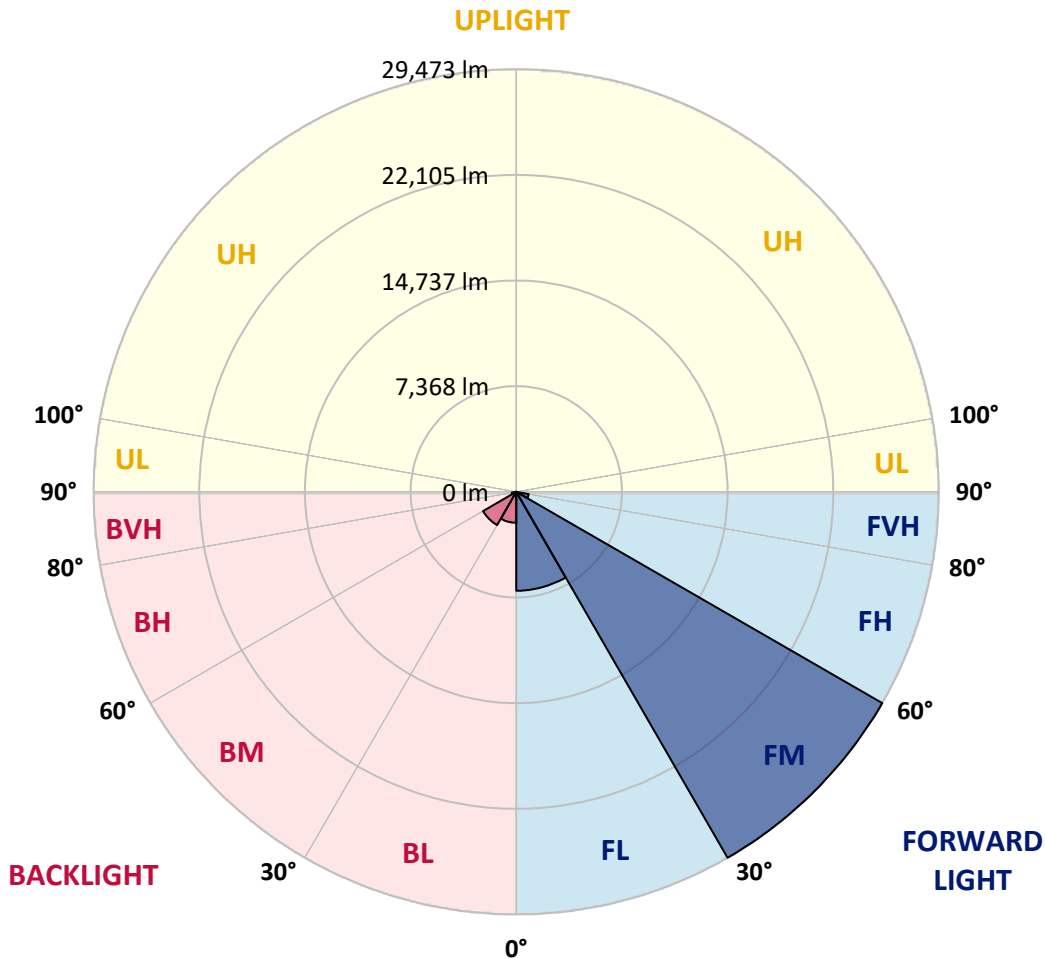
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6900.0	16.3			
FM (30°-60°)	29473.1	69.4			
FH (60°-80°)	877.4	2.1			G1/1800
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	2158.5	5.1	B3/2500		
BM (30°-60°)	2673.5	6.3	B3/5000		
BH (60°-80°)	311.9	0.7	B1/500		G1/500
BVH (80°-90°)	23.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7
2.5°	14854.1	14513.8	14544.7	14322.0	14192.1	13981.7	13697.2	13641.5	13332.1	12911.5	12484.6
5°	16190.4	16109.9	16215.1	15893.4	15905.8	15559.3	14891.2	14903.5	14192.1	13505.4	12843.4
7.5°	16277.0	16091.4	16196.6	16481.1	16648.2	16586.3	16208.9	15881.0	15206.7	14198.3	13233.2
10°	14575.7	14928.3	15039.7	15509.8	16178.0	16883.3	16840.0	16858.5	16295.5	14977.8	13567.2
12.5°	13554.9	13319.8	13697.2	13981.7	14990.2	16357.4	16982.2	17118.4	17161.7	15732.6	13901.3
15°	13090.9	13090.9	13152.7	13233.2	13963.2	15225.3	16499.7	16895.6	17829.8	16722.4	14427.2
17.5°	13381.6	13369.3	13455.9	13288.8	13561.1	14532.4	16054.3	16505.9	18578.4	17693.7	14841.7
20°	14266.3	14309.6	14254.0	13771.4	13790.0	14520.0	15559.3	16270.8	19085.7	18535.1	15392.3
22.5°	15497.5	15522.2	15206.7	14680.8	14526.2	14885.0	15843.9	16388.3	19494.0	19543.5	15559.3
25°	16920.4	16821.4	16759.5	16017.1	15547.0	15856.3	16487.3	16802.8	19747.7	20409.6	16035.7
27.5°	18893.9	18695.9	18318.6	17656.6	17310.1	16870.9	17322.5	17842.2	20471.5	21622.2	16555.4
30°	21807.8	21634.6	20898.4	20044.6	19135.2	18702.1	18844.4	19129.0	21776.9	23026.6	17242.1
32.5°	26194.1	25829.1	24765.0	23137.9	21900.6	20706.6	20669.5	20972.6	22946.1	24969.2	18058.7
35°	31025.9	30914.5	29349.3	27672.7	25278.5	23434.9	23465.8	23626.7	25185.7	27518.1	19129.0
37.5°	34236.7	34849.2	33853.1	32052.8	30042.2	27406.7	26738.5	26794.2	28260.4	30537.1	21059.2
40°	36717.5	36197.9	36315.4	35894.7	34521.3	32727.2	31248.6	30957.8	31817.7	33877.9	22977.1
42.5°	35634.9	35659.6	36383.5	37379.5	37719.8	37589.9	36080.3	35529.7	34861.6	36612.4	24802.1
45°	32578.7	33215.9	34156.3	36791.8	39105.6	41277.1	40980.1	40064.5	36965.0	38777.7	25853.9
47.5°	27703.6	27678.9	29219.4	32646.8	37787.8	42873.2	44221.9	43578.5	38456.0	38536.4	25637.3
48°	25903.3	26348.8	27938.7	31972.4	36952.6	42638.1	44512.7	43702.2	38202.3	38214.7	25451.7
50°	19147.6	19067.1	21046.9	25996.1	33005.6	40064.5	43287.7	43918.8	38196.1	36587.6	24152.5
52.5°	10115.1	10461.6	11903.0	16345.0	23335.9	32789.0	38183.8	39167.4	36847.5	33927.4	22284.2
55°	4299.7	3885.2	4992.6	7380.6	13128.0	21906.8	28013.0	30203.0	31155.8	30023.6	19494.0
57.5°	1534.3	1676.6	1930.2	2777.8	5518.5	11989.7	16703.9	18405.2	21585.1	22030.5	13282.7
60°	983.7	1002.2	1082.7	1274.4	2072.5	4621.4	7925.0	9279.9	10721.4	11067.8	6199.0
62.5°	761.0	767.1	804.3	835.2	983.7	1794.1	2975.8	3526.4	3662.5	3149.0	1627.1
65°	637.2	643.4	655.8	655.8	699.1	841.4	1039.4	1144.5	1113.6	1101.2	921.8
67.5°	488.7	501.1	525.9	525.9	550.6	513.5	575.4	612.5	692.9	841.4	785.7
70°	383.6	389.8	408.3	420.7	420.7	371.2	414.5	451.6	507.3	624.8	618.7
72.5°	297.0	309.3	321.7	321.7	303.1	253.7	297.0	327.9	365.0	433.1	420.7
75°	228.9	228.9	235.1	191.8	148.5	129.9	179.4	216.5	272.2	284.6	235.1
77.5°	61.9	68.1	61.9	55.7	61.9	92.8	117.5	136.1	173.2	173.2	154.7
80°	0.0	6.2	18.6	37.1	61.9	86.6	105.2	117.5	136.1	148.5	142.3
82.5°	0.0	6.2	18.6	37.1	55.7	68.1	92.8	99.0	111.4	129.9	129.9
85°	0.0	6.2	12.4	24.7	37.1	43.3	43.3	37.1	37.1	30.9	24.7
87.5°	0.0	0.0	6.2	12.4	12.4	18.6	18.6	18.6	18.6	18.6	18.6
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°	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7	12255.7
2.5°	12317.5	12125.8	11835.0	11377.2	10937.9	10653.3	10381.1	10078.0	9911.0	9898.6	9805.8
5°	12466.0	12033.0	11340.1	10554.4	9713.0	8989.1	8259.1	7782.8	7355.9	7120.8	7077.5
7.5°	12546.4	11983.5	10863.7	9545.9	8110.6	6929.0	6112.4	5512.3	5277.2	5104.0	5097.8
10°	12713.5	11896.9	10152.2	8209.6	6434.1	5240.1	4677.1	4404.9	4274.9	4225.5	4151.2
12.5°	12837.2	11736.0	9422.2	6836.2	5085.4	4343.0	4095.5	4033.7	4039.9	4064.6	4033.7
15°	13010.4	11593.7	8438.5	5611.3	4268.8	3909.9	3909.9	3922.3	4008.9	4021.3	4015.1
17.5°	12998.1	11315.3	7423.9	4621.4	3773.8	3724.3	3742.9	3860.4	3916.1	3934.7	3891.4
20°	13146.6	11055.5	6378.4	3947.1	3495.4	3569.7	3693.4	3724.3	3792.4	3804.8	3755.3
22.5°	13103.2	10405.9	5407.1	3415.0	3285.1	3427.4	3551.1	3588.2	3569.7	3532.6	3526.4
25°	13022.8	9849.1	4516.2	3062.4	3130.4	3285.1	3402.6	3334.6	3297.5	3303.7	3309.8
27.5°	12880.5	9143.8	3780.0	2814.9	2920.1	3149.0	3142.8	3118.1	3155.2	3124.2	3155.2
30°	12855.8	8438.5	3173.7	2592.2	2765.4	2932.5	2944.8	2988.1	3031.4	2975.8	3031.4
32.5°	12892.9	7665.2	2740.7	2456.1	2672.6	2678.8	2814.9	2858.2	2827.3	2703.5	2715.9
35°	13177.5	7071.3	2425.2	2381.8	2524.1	2530.3	2660.2	2604.6	2468.5	2394.2	2437.5
37.5°	13777.6	6576.4	2276.7	2313.8	2326.2	2406.6	2412.8	2301.4	2313.8	2307.6	2332.4
40°	14544.7	6199.0	2171.5	2251.9	2239.6	2295.2	2072.5	2134.4	2190.1	2208.6	2221.0
42.5°	15070.6	5926.8	2103.4	2152.9	2128.2	2029.2	1905.5	1967.3	2010.6	2078.7	2091.1
45°	15305.7	5710.2	2023.0	1979.7	1979.7	1800.3	1750.8	1763.2	1862.2	1936.4	1924.0
47.5°	14922.1	5499.9	1880.7	1750.8	1794.1	1645.6	1590.0	1590.0	1695.1	1787.9	1769.4
48°	14773.6	5413.3	1886.9	1701.3	1732.3	1620.9	1565.2	1552.8	1670.4	1757.0	1757.0
50°	14037.4	5091.6	1726.1	1565.2	1503.3	1491.0	1453.9	1466.2	1540.5	1620.9	1620.9
52.5°	12602.1	4398.7	1460.0	1342.5	1231.1	1305.4	1323.9	1299.2	1336.3	1410.5	1404.4
55°	10517.2	3377.9	1169.3	1113.6	1027.0	1107.4	1144.5	1113.6	1076.5	1132.1	1132.1
57.5°	6737.2	1818.9	934.2	946.6	859.9	940.4	971.3	897.1	829.0	872.3	866.1
60°	3037.6	1088.8	767.1	748.6	692.9	785.7	835.2	748.6	655.8	686.7	717.6
62.5°	1138.3	773.3	581.5	569.2	556.8	643.4	668.2	600.1	507.3	525.9	532.0
65°	835.2	680.5	464.0	420.7	445.4	507.3	494.9	426.9	365.0	365.0	377.4
67.5°	711.5	593.9	377.4	327.9	327.9	334.1	309.3	272.2	253.7	266.0	278.4
70°	556.8	470.2	297.0	253.7	228.9	204.2	179.4	173.2	154.7	173.2	167.0
72.5°	358.8	315.5	228.9	191.8	173.2	142.3	117.5	111.4	92.8	86.6	86.6
75°	191.8	191.8	179.4	154.7	136.1	111.4	92.8	74.2	49.5	37.1	37.1
77.5°	136.1	148.5	160.9	148.5	123.7	92.8	74.2	49.5	24.7	12.4	12.4
80°	129.9	148.5	160.9	142.3	123.7	92.8	68.1	37.1	18.6	6.2	6.2
82.5°	117.5	136.1	148.5	129.9	111.4	80.4	61.9	37.1	18.6	6.2	6.2
85°	24.7	30.9	37.1	37.1	43.3	55.7	43.3	30.9	12.4	6.2	6.2
87.5°	18.6	18.6	18.6	18.6	18.6	18.6	12.4	12.4	6.2	6.2	6.2
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)