

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: P532388

Luminaire Tested: **GALN-SA7D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44280 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

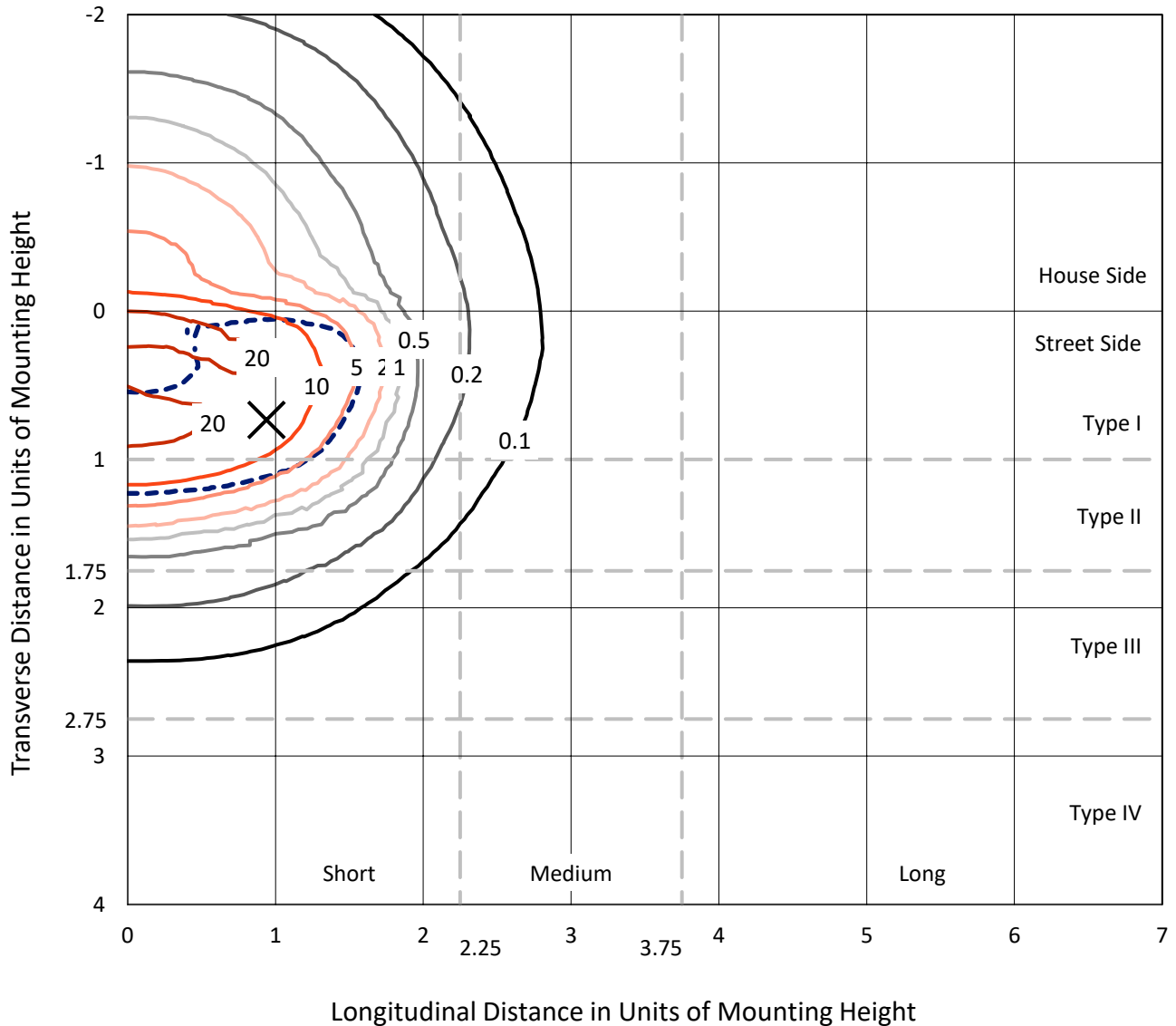
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

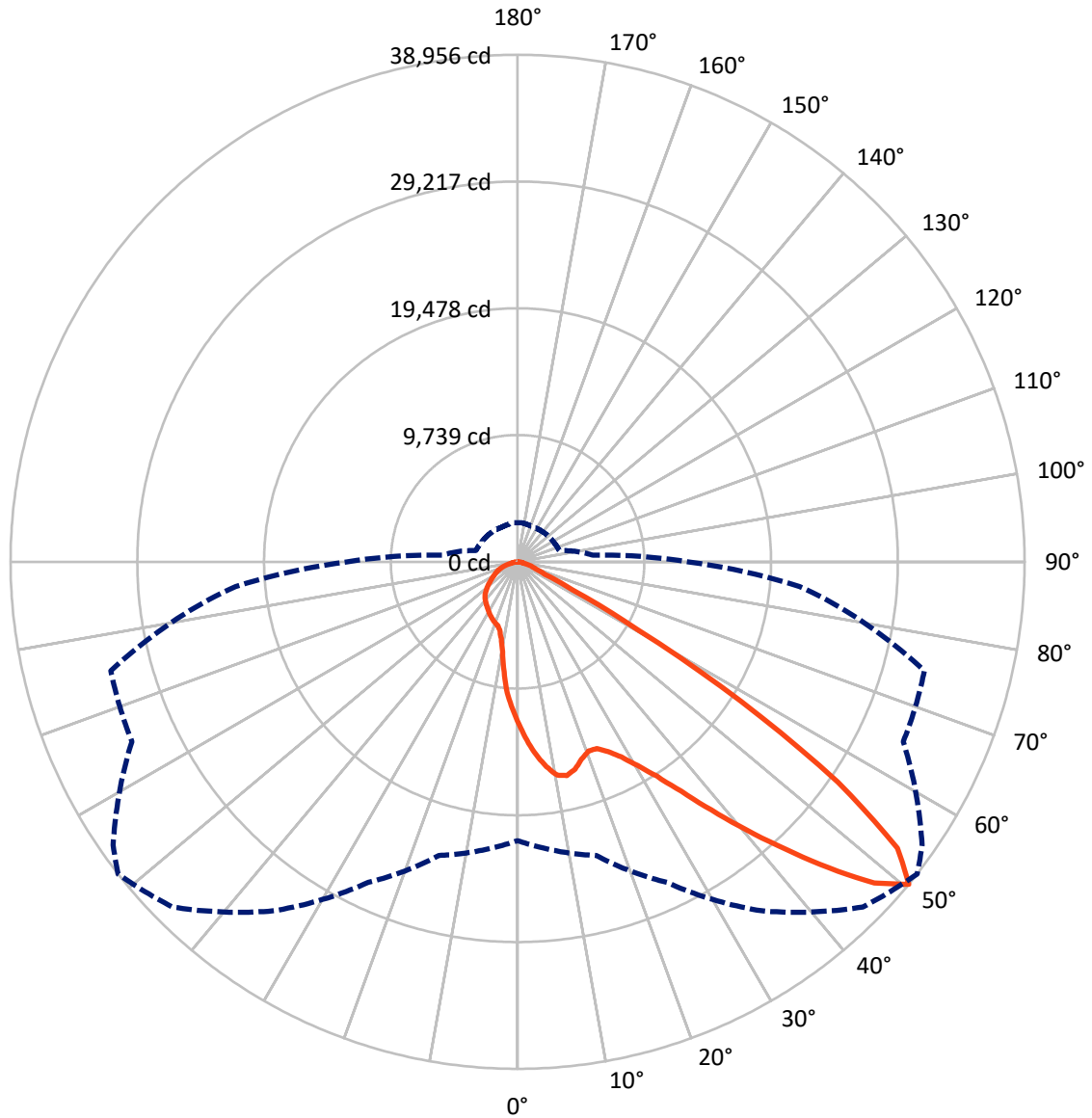
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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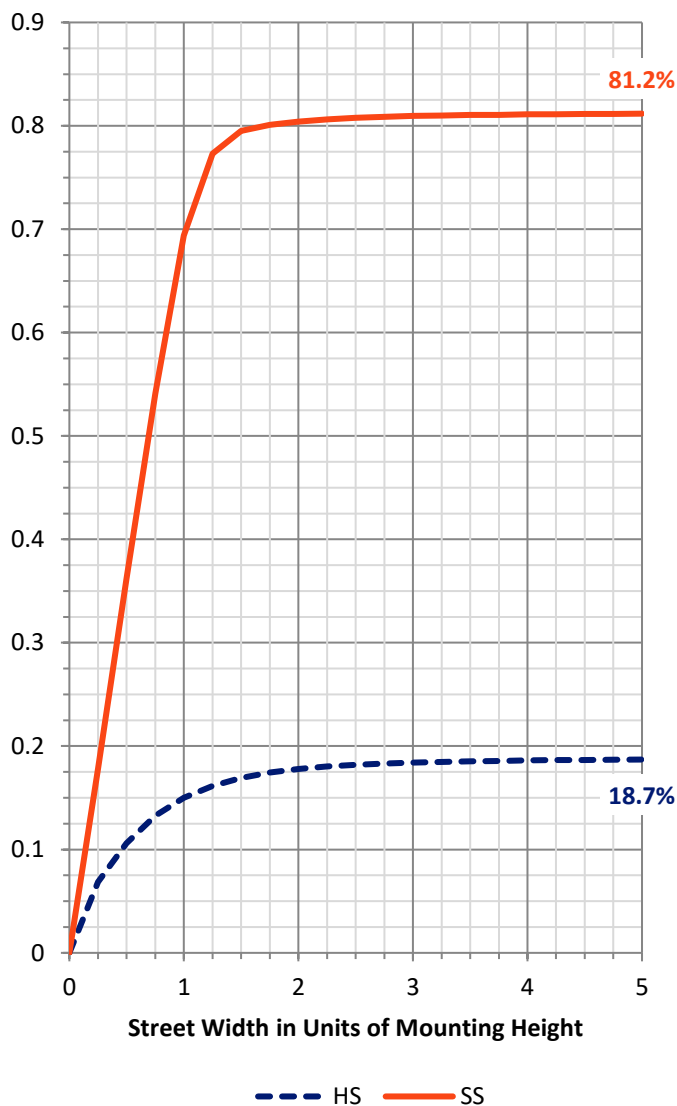
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8323.6	0.0	8323.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	35956.4	0.0	35956.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	44280.0	0.0	44280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.4	2.6
10°-20°	3083.5	7.0
20°-30°	5194.0	11.7
30°-40°	8716.0	19.7
40°-50°	13333.3	30.1
50°-60°	9721.0	22.0
60°-70°	2163.4	4.9
70°-80°	780.3	1.8
80°-90°	138.1	0.3
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°	44280.0	100.0
0°-180°	44280.0	100.0

Coefficient of Utilization

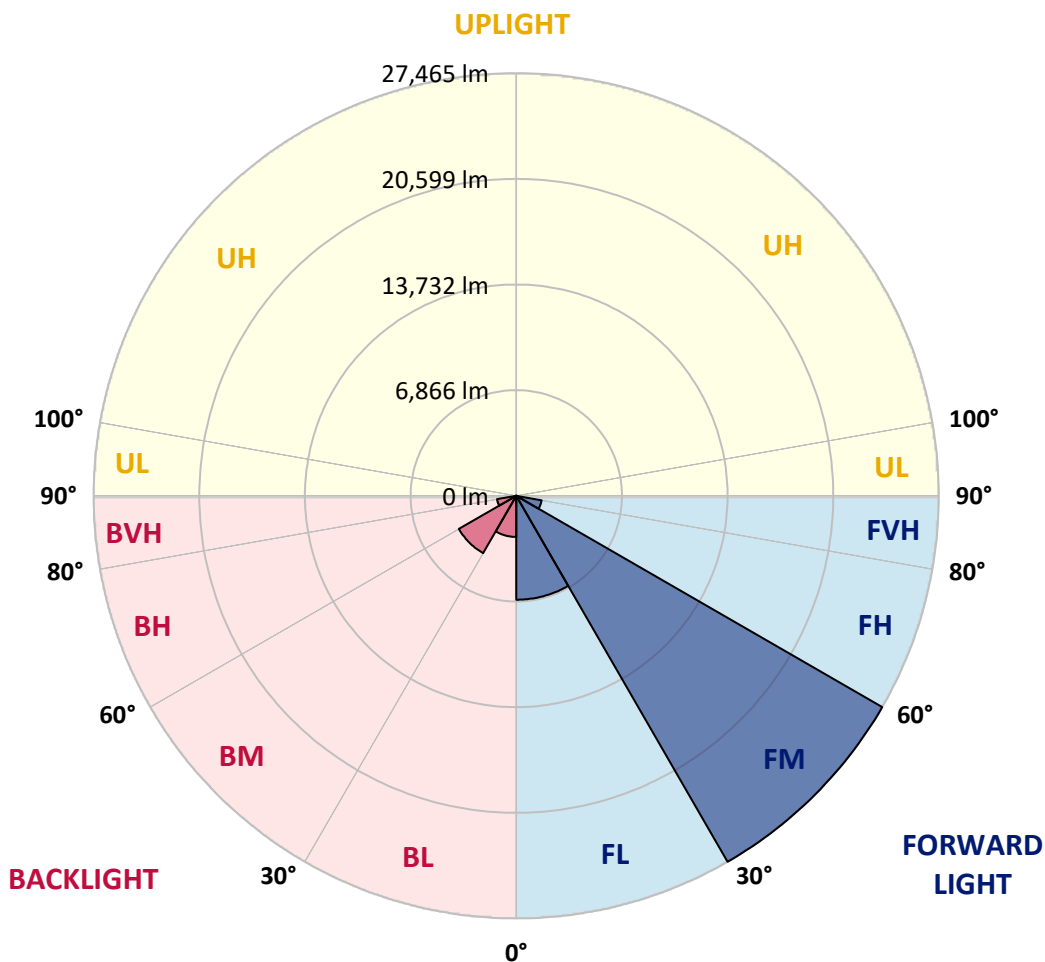


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6754.2	15.3			
FM (30°-60°)	27464.7	62.0			
FH (60°-80°)	1675.6	3.8			G1/1800
FVH (80°-90°)	61.9	0.1			G1/100
BL (0°-30°)	2673.7	6.0	B4/5000		
BM (30°-60°)	4305.5	9.7	B3/5000		
BH (60°-80°)	1268.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	76.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8
2.5°	14696.4	14413.6	14445.6	14242.8	14024.0	13960.0	13735.8	13522.4	13362.3	13020.8	12705.9
5°	16062.5	15977.1	15849.1	15689.0	15523.5	15118.0	14888.5	14621.7	14034.7	13506.4	12983.4
7.5°	16260.0	16243.9	16313.3	16313.3	16372.0	16217.3	15891.7	15705.0	15080.6	14221.5	13250.2
10°	14872.5	14920.5	15256.7	15694.3	16302.6	16724.2	16670.9	16622.8	15939.8	14765.8	13565.1
12.5°	13767.9	13661.1	13858.6	14232.1	15144.7	16163.9	16852.3	16857.6	16681.5	15635.6	13794.5
15°	13143.5	13218.2	13271.6	13447.7	14136.1	15315.4	16526.8	16884.3	17658.1	16249.3	14157.4
17.5°	13543.7	13292.9	13282.3	13324.9	13677.1	14563.0	15923.8	16537.4	18191.7	17039.1	14605.7
20°	14066.7	14061.4	13911.9	13858.6	13853.2	14643.0	15528.9	16361.3	18474.6	18063.7	15059.3
22.5°	14984.6	14984.6	14739.1	14621.7	14370.9	15016.6	15582.2	16147.9	18944.2	18768.1	15278.1
25°	16521.4	16270.6	15849.1	15560.9	15416.8	15646.3	16147.9	16654.8	19355.1	19515.1	15731.7
27.5°	17940.9	17546.0	17337.9	16841.6	16649.5	16516.1	16975.0	17487.3	19835.3	20678.5	15977.1
30°	19552.5	19483.1	19109.6	18469.2	17994.3	17748.8	18170.4	18677.3	20715.8	21868.5	16542.8
32.5°	22434.2	21804.5	21297.5	20513.1	19739.3	19216.3	19632.6	19968.7	22178.0	23111.9	17161.8
35°	25545.3	25342.5	24467.3	23053.2	21868.5	21398.9	21644.4	21895.2	23880.3	25011.6	18202.4
37.5°	28603.0	28325.5	27605.1	26415.1	24974.3	24019.1	24195.2	24488.7	25790.7	27573.1	19472.5
40°	30801.6	30460.1	30097.2	29921.1	28490.9	27183.5	27082.1	27156.8	28373.5	29974.5	20881.3
42.5°	30961.7	31383.3	31495.3	32205.1	31868.9	30796.3	30171.9	30187.9	30839.0	32349.1	22306.1
45°	30625.5	30235.9	31063.1	33000.2	34110.2	34611.8	33560.5	33427.1	32365.2	33725.9	23015.8
47.5°	27098.1	27204.9	28603.0	31666.1	34873.3	37114.5	36869.1	36426.1	33181.6	33677.9	22903.8
50°	21420.2	22065.9	23362.7	27178.2	32738.7	37509.4	38955.6	37931.0	32696.0	32354.5	21761.8
52.5°	14264.1	14531.0	15384.8	20310.3	26324.4	33528.5	36554.2	36789.0	32247.8	30620.2	20315.6
55°	6350.3	6328.9	7529.6	10608.7	16516.1	25513.2	29867.7	31297.9	30524.1	28853.8	18906.8
57.5°	2689.5	2780.3	3271.2	4584.0	8122.0	15395.5	20235.6	21489.6	23474.7	23693.5	14504.3
60°	1819.7	1830.4	1963.8	2294.6	3399.3	7230.8	10614.1	12118.9	13538.4	13442.3	7695.1
62.5°	1430.2	1467.5	1568.9	1702.3	2017.2	3281.9	4749.4	5587.2	5677.9	4776.1	2919.0
65°	1222.0	1227.4	1328.8	1440.8	1579.6	1910.4	2289.3	2332.0	2358.7	2273.3	2145.2
67.5°	1008.6	1019.2	1099.3	1227.4	1355.4	1462.2	1568.9	1622.3	1745.0	1985.1	1953.1
70°	800.5	816.5	885.8	992.6	1110.0	1174.0	1307.4	1355.4	1467.5	1654.3	1729.0
72.5°	608.3	613.7	672.4	747.1	853.8	917.9	1029.9	1083.3	1158.0	1318.1	1387.5
75°	437.6	453.6	496.3	533.6	549.6	592.3	699.1	757.8	864.5	933.9	939.2
77.5°	229.5	240.1	250.8	250.8	304.2	384.2	453.6	485.6	560.3	613.7	587.0
80°	90.7	96.1	122.7	165.4	213.5	277.5	325.5	341.5	405.6	437.6	453.6
82.5°	53.4	58.7	80.0	117.4	154.8	197.4	234.8	250.8	293.5	330.9	341.5
85°	26.7	32.0	48.0	74.7	101.4	122.7	117.4	112.1	112.1	106.7	112.1
87.5°	10.7	10.7	16.0	16.0	16.0	21.3	26.7	26.7	26.7	32.0	32.0
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°	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8	12481.8
2.5°	12497.8	12284.4	12086.9	11724.0	11329.1	11217.1	10758.1	10592.7	10475.3	10336.6	10293.9
5°	12561.8	12279.0	11644.0	10912.9	10331.2	9584.1	9093.2	8564.9	8180.7	8084.6	8057.9
7.5°	12695.3	12209.6	11115.7	10011.1	8821.0	7807.1	7033.4	6617.1	6248.9	6227.6	6190.2
10°	12844.7	12001.5	10539.4	8805.0	7284.2	6345.0	5880.7	5699.3	5608.5	5587.2	5576.5
12.5°	12967.4	11958.8	9893.7	7631.0	6195.5	5629.9	5491.1	5475.1	5512.5	5523.2	5544.5
15°	13020.8	11788.1	9114.5	6579.8	5517.8	5309.7	5368.4	5432.4	5459.1	5528.5	5475.1
17.5°	13122.2	11569.3	8154.0	5747.3	5138.9	5176.3	5277.7	5352.4	5395.1	5443.1	5373.7
20°	13175.5	11371.8	7252.1	5251.0	5005.5	5074.9	5213.6	5272.3	5325.7	5347.1	5267.0
22.5°	13127.5	10966.3	6457.0	4850.8	4877.5	4968.2	5090.9	5154.9	5122.9	5037.5	4989.5
25°	12999.4	10395.3	5629.9	4594.6	4696.0	4856.1	4952.2	4904.1	4845.4	4797.4	4781.4
27.5°	12994.1	9696.2	5032.2	4359.8	4541.3	4760.1	4728.0	4685.3	4712.0	4674.7	4632.0
30°	13020.8	9018.5	4541.3	4226.4	4429.2	4535.9	4573.3	4530.6	4562.6	4493.2	4514.6
32.5°	12882.0	8356.8	4221.1	4071.7	4295.8	4290.5	4413.2	4445.2	4370.5	4226.4	4247.8
35°	12940.7	7823.1	3948.9	4002.3	4146.4	4146.4	4242.4	4205.1	4007.6	3922.2	3943.6
37.5°	13346.3	7300.2	3815.5	3906.2	4002.3	4045.0	4013.0	3852.9	3804.8	3804.8	3815.5
40°	13730.5	6851.9	3735.5	3884.9	3868.9	3895.6	3660.8	3676.8	3676.8	3682.1	3655.4
42.5°	14072.0	6547.7	3671.4	3756.8	3783.5	3644.7	3500.7	3484.7	3522.0	3516.7	3495.3
45°	14194.8	6296.9	3580.7	3612.7	3634.1	3404.6	3335.2	3303.2	3345.9	3361.9	3383.3
47.5°	13725.2	6088.8	3479.3	3415.3	3372.6	3223.2	3132.5	3073.8	3127.1	3217.8	3239.2
50°	13122.2	5816.7	3319.2	3196.5	3105.8	3041.7	2977.7	2919.0	2956.4	3020.4	3004.4
52.5°	12231.0	5389.7	3116.4	2988.4	2833.6	2849.6	2790.9	2758.9	2780.3	2780.3	2764.2
55°	10960.9	4429.2	2774.9	2684.2	2556.1	2598.8	2609.5	2566.8	2524.1	2561.5	2529.4
57.5°	7481.6	3127.1	2476.1	2476.1	2348.0	2406.7	2401.4	2300.0	2198.6	2209.3	2187.9
60°	4327.8	2492.1	2284.0	2262.6	2129.2	2177.2	2187.9	2118.5	1963.8	1974.5	1953.1
62.5°	2460.1	2129.2	1995.8	1963.8	1937.1	1979.8	1979.8	1889.1	1755.7	1766.3	1745.0
65°	2091.9	1974.5	1782.4	1777.0	1766.3	1777.0	1734.3	1638.3	1520.9	1472.8	1478.2
67.5°	1899.8	1825.0	1638.3	1590.2	1558.2	1552.9	1472.8	1382.1	1328.8	1286.1	1280.7
70°	1665.0	1606.3	1467.5	1403.5	1371.5	1296.7	1216.7	1158.0	1083.3	1061.9	1083.3
72.5°	1318.1	1312.8	1259.4	1190.0	1120.6	1061.9	992.6	912.5	843.1	827.1	789.8
75°	912.5	923.2	933.9	923.2	864.5	789.8	709.7	645.7	560.3	512.3	501.6
77.5°	597.7	613.7	629.7	608.3	571.0	501.6	448.3	368.2	304.2	266.8	261.5
80°	437.6	458.9	469.6	453.6	410.9	357.5	298.8	234.8	186.8	154.8	154.8
82.5°	336.2	357.5	368.2	341.5	298.8	256.1	213.5	165.4	128.1	101.4	96.1
85°	117.4	112.1	133.4	138.7	165.4	154.8	128.1	96.1	74.7	53.4	48.0
87.5°	32.0	32.0	37.4	37.4	32.0	26.7	26.7	26.7	21.3	16.0	16.0
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)