

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: P459242

Luminaire Tested: **GALN-SA7B-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37282 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

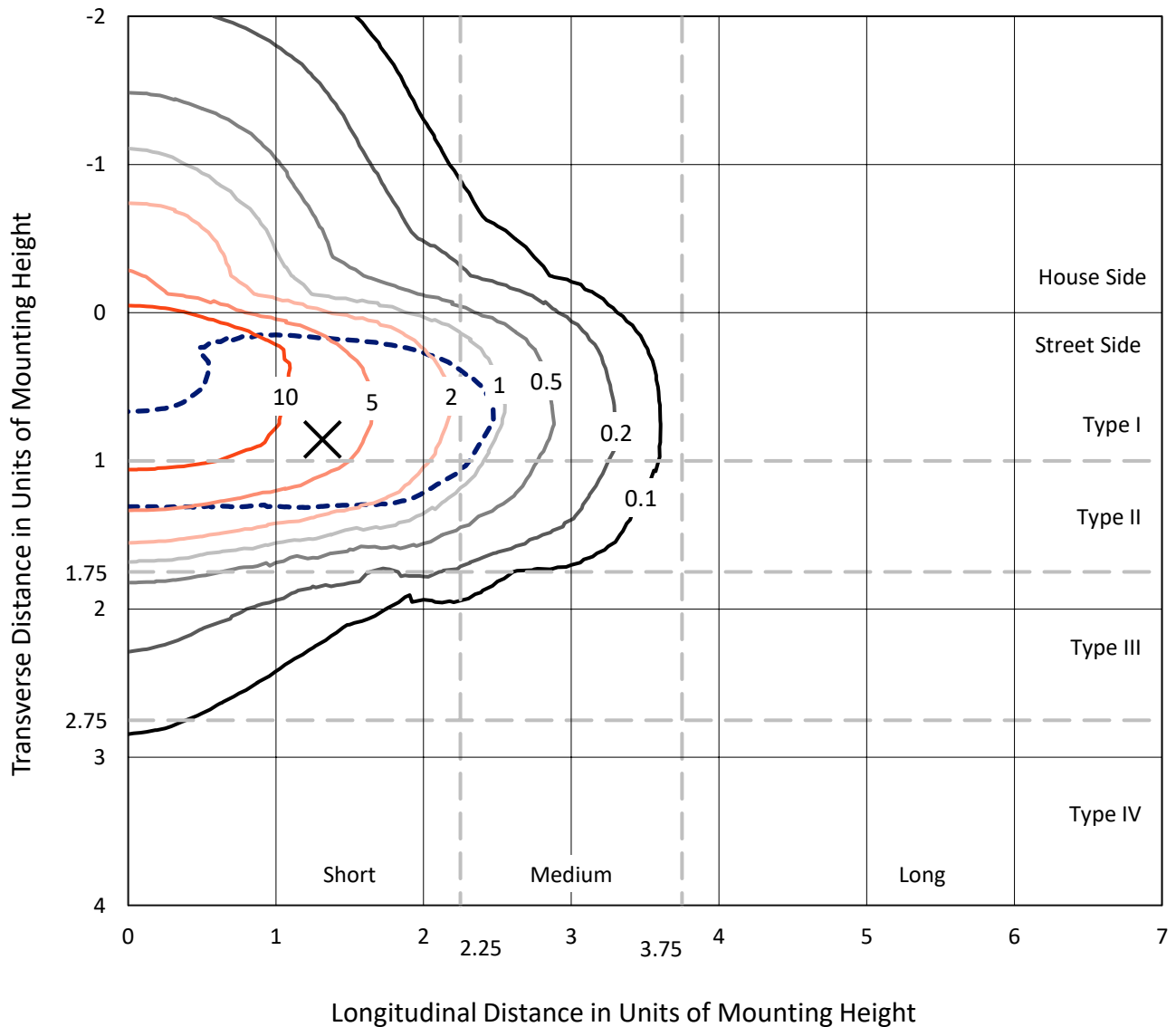
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

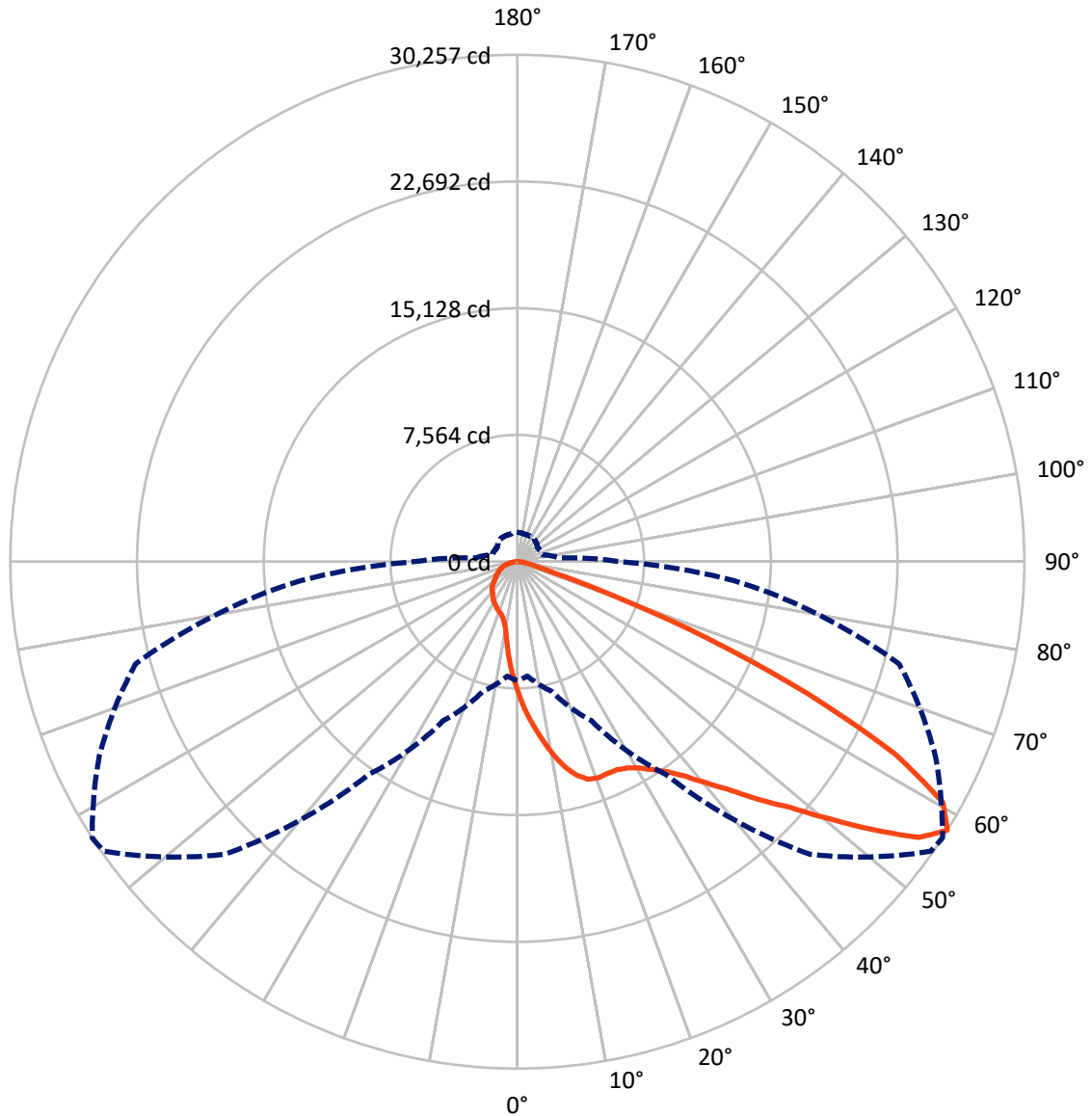
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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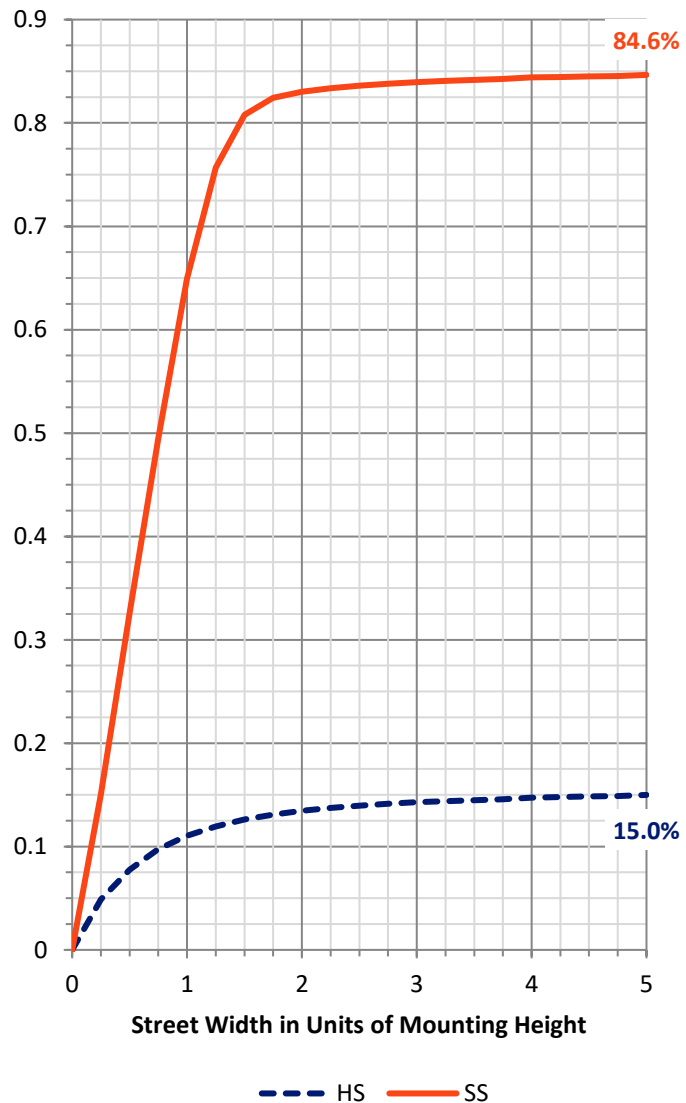
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5669.5	0.0	5669.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	31612.5	0.0	31612.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	37282.0	0.0	37282.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.8	2.0
10°-20°	2218.5	6.0
20°-30°	3683.8	9.9
30°-40°	5548.9	14.9
40°-50°	8331.2	22.3
50°-60°	9338.2	25.0
60°-70°	5465.2	14.7
70°-80°	1616.6	4.3
80°-90°	326.7	0.9
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°	37282.0	100.0
0°-180°	37282.0	100.0



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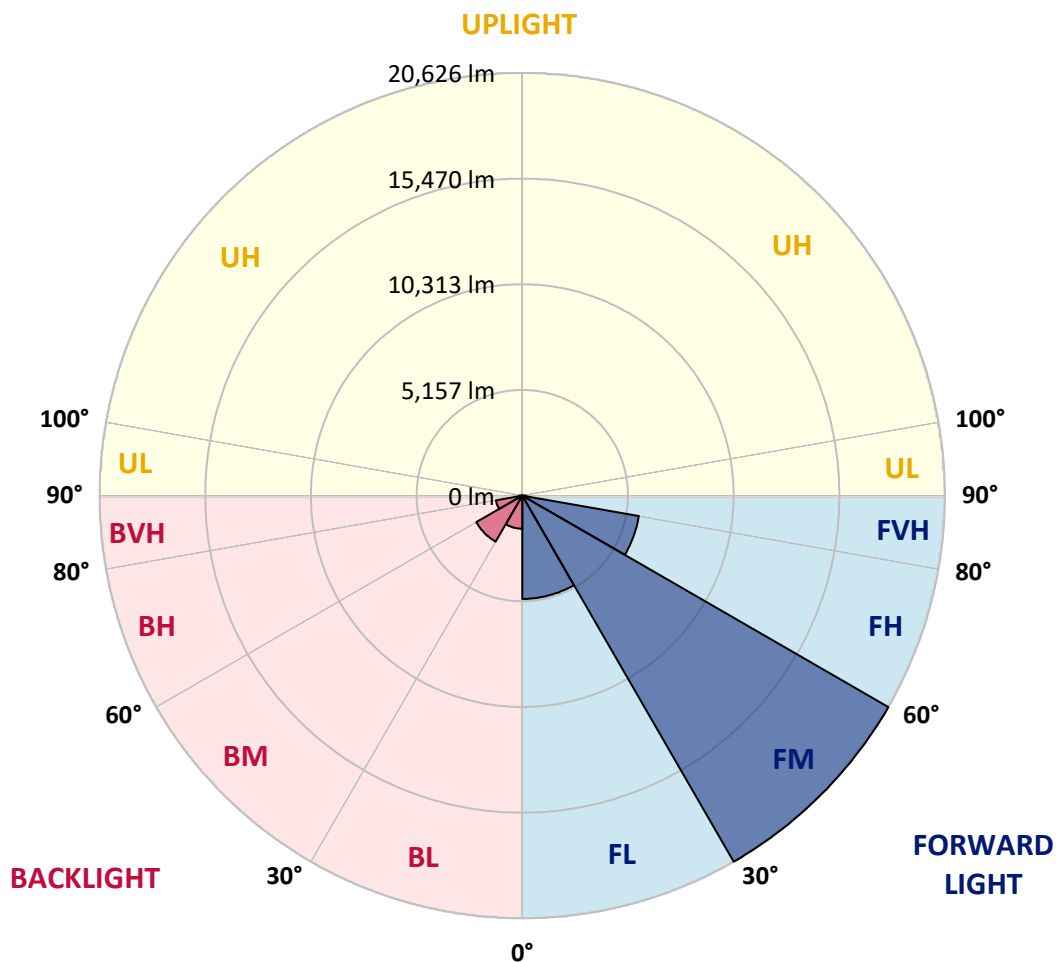
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5039.7	13.5			
FM	(30°-60°)	20626.0	55.3			
FH	(60°-80°)	5777.2	15.5			G3/7500
FVH	(80°-90°)	169.5	0.5			G2/225
BL	(0°-30°)	1615.4	4.3	B3/2500		
BM	(30°-60°)	2592.3	7.0	B3/5000		
BH	(60°-80°)	1304.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	157.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5
2.5°	9732.5	9626.4	9542.7	9469.2	9373.3	9114.1	8855.0	8850.9	8644.8	8326.4	7999.9
5°	11318.2	11175.3	11193.7	10965.1	10736.6	10361.1	9812.1	9783.5	9344.7	8748.8	8142.7
7.5°	12350.8	12352.9	12295.7	12165.1	11918.2	11491.6	10869.2	10728.4	10118.2	9214.1	8306.0
10°	12297.8	12352.9	12448.8	12561.0	12636.5	12426.3	11859.0	11687.6	10893.7	9777.4	8487.6
12.5°	11591.6	11677.4	11814.1	12095.7	12550.8	12897.7	12703.9	12565.1	11791.6	10338.6	8687.6
15°	11150.8	11201.9	11277.4	11467.2	11956.9	12787.5	13289.6	13216.1	12638.6	10973.3	8912.1
17.5°	11016.1	11067.2	11091.7	11208.0	11556.9	12408.0	13520.2	13650.8	13389.6	11556.9	9138.6
20°	11150.8	11175.3	11175.3	11244.7	11518.2	12185.5	13510.0	13773.2	14005.9	12256.9	9350.9
22.5°	11503.9	11514.1	11499.8	11524.3	11728.4	12246.7	13414.1	13740.6	14503.8	12850.8	9516.2
25°	12077.3	12093.7	11999.8	11942.7	12091.6	12516.1	13467.1	13767.1	14893.6	13418.1	9626.4
27.5°	12728.4	12748.8	12634.5	12501.8	12571.2	12848.8	13675.3	13944.7	15185.5	13977.3	9695.8
30°	13526.3	13534.5	13342.6	13183.5	13138.6	13344.7	14030.4	14281.4	15548.7	14636.5	9799.8
32.5°	14342.6	14403.8	14156.9	13932.4	13856.9	13920.2	14554.9	14797.7	15981.4	15344.6	9967.2
35°	15452.8	15463.0	15167.1	14893.6	14644.7	14726.3	15226.3	15401.8	16579.3	16163.0	10203.9
37.5°	16838.5	16932.4	16524.2	16014.0	15707.9	15589.5	16038.5	16230.3	17418.1	17167.1	10561.0
40°	18377.2	18411.9	18063.0	17744.6	17185.4	16842.6	17152.8	17360.9	18452.8	18365.0	10975.3
42.5°	19344.6	19420.1	19446.6	19414.0	18993.6	18418.1	18536.4	18634.4	19677.2	19489.5	11399.8
45°	19671.1	19783.3	20162.9	20967.0	21011.9	20444.6	20169.0	20262.9	21011.9	20624.1	11805.9
47.5°	19130.3	19322.1	20022.1	21671.1	22905.7	22948.6	22118.0	21911.9	22228.2	21564.9	12099.8
50°	17732.4	17773.2	18844.6	21232.3	23793.5	25342.4	24483.3	24099.6	23383.3	22260.9	12301.8
52.5°	15569.1	15616.1	16514.0	19193.6	23246.5	27015.9	27250.6	26564.9	24556.7	22801.7	12434.5
55°	11556.9	11828.4	12816.1	15405.9	20654.8	26858.7	29450.5	29060.7	25975.1	23230.2	12642.6
57.5°	7106.0	6857.0	8028.4	10481.5	15534.4	24699.6	30130.1	30256.6	27536.3	23589.4	12991.6
60°	3269.3	3318.3	3802.0	5406.0	9469.2	19322.1	28379.1	29179.1	28399.5	23577.2	13079.4
62.5°	2253.0	2208.1	2085.7	2373.4	4318.3	12220.2	23971.0	25326.1	26668.9	22844.5	12730.4
65°	2014.3	1969.4	1732.6	1653.0	1983.6	5326.4	17426.2	19136.4	22454.7	20995.6	11861.0
67.5°	1881.6	1820.4	1575.5	1420.4	1416.3	2120.4	10275.3	12334.5	16654.8	17750.7	10277.4
70°	1742.8	1693.8	1451.0	1279.6	1206.1	1332.6	4516.3	5912.1	10814.1	12791.6	8006.0
72.5°	1604.1	1546.9	1328.5	1144.9	1049.0	997.9	1730.6	2251.0	6110.1	7669.3	4908.1
75°	1402.0	1373.4	1187.7	1036.7	932.6	806.1	1097.9	1253.0	2922.4	3522.4	2463.2
77.5°	1226.5	1195.9	1055.1	906.1	830.6	655.1	779.6	851.0	1232.6	1428.5	1112.2
80°	897.9	928.6	889.8	800.0	740.8	514.3	524.5	583.7	732.6	810.2	679.6
82.5°	569.4	626.5	685.7	616.3	561.2	406.1	363.3	385.7	500.0	530.6	302.0
85°	238.8	242.9	398.0	375.5	320.4	240.8	218.4	230.6	267.3	279.6	140.8
87.5°	91.8	89.8	140.8	130.6	100.0	69.4	69.4	77.5	106.1	98.0	44.9
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°	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5
2.5°	7859.1	7714.2	7426.4	7069.3	6808.0	6514.2	6255.0	6069.3	5999.9	5967.2	5906.0
5°	7852.9	7567.2	6971.3	6346.8	5844.8	5330.5	4895.8	4614.2	4589.7	4402.0	4383.6
7.5°	7855.0	7418.2	6469.3	5550.9	4785.6	4259.1	3899.9	3806.1	3693.8	3665.2	3679.5
10°	7861.1	7228.5	5930.5	4763.2	4022.4	3677.5	3542.8	3506.1	3510.1	3522.4	3524.4
12.5°	7869.3	7044.8	5371.3	4165.2	3593.8	3451.0	3436.7	3469.3	3504.0	3530.6	3536.7
15°	7879.5	6834.6	4826.4	3683.6	3379.5	3367.3	3414.2	3469.3	3518.3	3557.1	3563.2
17.5°	7867.2	6589.7	4369.3	3387.7	3261.2	3320.4	3397.9	3467.3	3512.2	3548.9	3553.0
20°	7838.6	6316.2	3928.5	3179.5	3187.7	3283.6	3367.3	3432.6	3481.6	3499.9	3514.2
22.5°	7728.4	5989.7	3544.8	3018.3	3099.9	3232.6	3332.6	3371.4	3316.3	3277.5	3287.7
25°	7540.7	5565.2	3187.7	2887.7	3020.4	3161.2	3263.2	3169.3	3124.4	3108.1	3116.3
27.5°	7306.0	5099.9	2918.3	2751.0	2918.3	3081.6	3053.0	3036.7	3016.3	2989.7	2995.9
30°	7052.9	4644.8	2689.8	2644.9	2808.1	2902.0	2914.2	2940.8	2918.3	2877.5	2893.8
32.5°	6818.3	4216.3	2516.3	2555.1	2730.6	2716.3	2808.1	2838.7	2734.6	2597.9	2604.0
35°	6618.3	3818.3	2385.7	2467.3	2597.9	2604.0	2695.9	2589.8	2477.5	2412.2	2416.3
37.5°	6467.2	3508.1	2300.0	2391.8	2428.5	2506.1	2457.1	2402.0	2387.7	2342.8	2344.9
40°	6377.4	3236.7	2244.9	2332.6	2326.5	2379.6	2222.4	2277.5	2297.9	2283.6	2285.7
42.5°	6287.6	3044.8	2187.7	2251.0	2248.9	2144.9	2110.2	2157.1	2210.2	2216.3	2212.2
45°	6216.2	2895.9	2128.5	2126.5	2167.3	2004.0	1993.8	2022.4	2097.9	2134.7	2132.6
47.5°	6136.6	2771.4	2038.7	1981.6	1993.8	1916.3	1900.0	1912.2	2004.0	2063.2	2079.6
50°	6036.6	2646.9	1926.5	1848.9	1797.9	1834.7	1838.7	1840.8	1932.6	2000.0	2014.3
52.5°	5957.0	2553.0	1797.9	1740.8	1679.6	1761.2	1791.8	1795.9	1851.0	1906.1	1916.3
55°	6004.0	2500.0	1671.4	1630.6	1575.5	1685.7	1744.9	1753.0	1765.3	1806.1	1812.2
57.5°	6144.8	2512.2	1569.4	1516.3	1475.5	1595.9	1695.9	1702.0	1693.8	1742.8	1751.0
60°	6187.7	2506.1	1493.9	1389.8	1365.3	1500.0	1624.5	1636.7	1634.7	1706.1	1720.4
62.5°	6008.1	2428.5	1418.3	1283.7	1267.3	1402.0	1524.5	1573.4	1583.6	1685.7	1704.1
65°	5585.6	2269.3	1318.3	1171.4	1171.4	1297.9	1428.5	1495.9	1524.5	1661.2	1681.6
67.5°	5028.5	2081.6	1216.3	1075.5	1071.4	1197.9	1326.5	1395.9	1440.8	1626.5	1638.7
70°	4173.4	1828.5	1089.8	971.4	971.4	1085.7	1202.0	1285.7	1351.0	1561.2	1561.2
72.5°	2859.1	1520.4	936.7	853.0	855.1	961.2	1079.6	1173.4	1251.0	1430.6	1434.7
75°	1808.1	1187.7	769.4	726.5	734.7	834.7	957.1	1055.1	1210.2	1414.3	1420.4
77.5°	961.2	834.7	612.2	602.0	612.2	704.1	840.8	975.5	1214.3	1226.5	1206.1
80°	622.4	591.8	483.7	463.3	467.3	567.3	749.0	926.5	975.5	987.7	942.8
82.5°	338.8	375.5	342.9	322.4	322.4	442.8	638.8	736.7	700.0	581.6	555.1
85°	144.9	175.5	177.5	155.1	149.0	273.5	428.6	402.0	373.5	357.1	353.1
87.5°	40.8	57.1	57.1	42.9	32.7	75.5	85.7	24.5	0.0	2.0	4.1
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)