

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: P532844

Luminaire Tested: **GALN-SA8B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33767 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

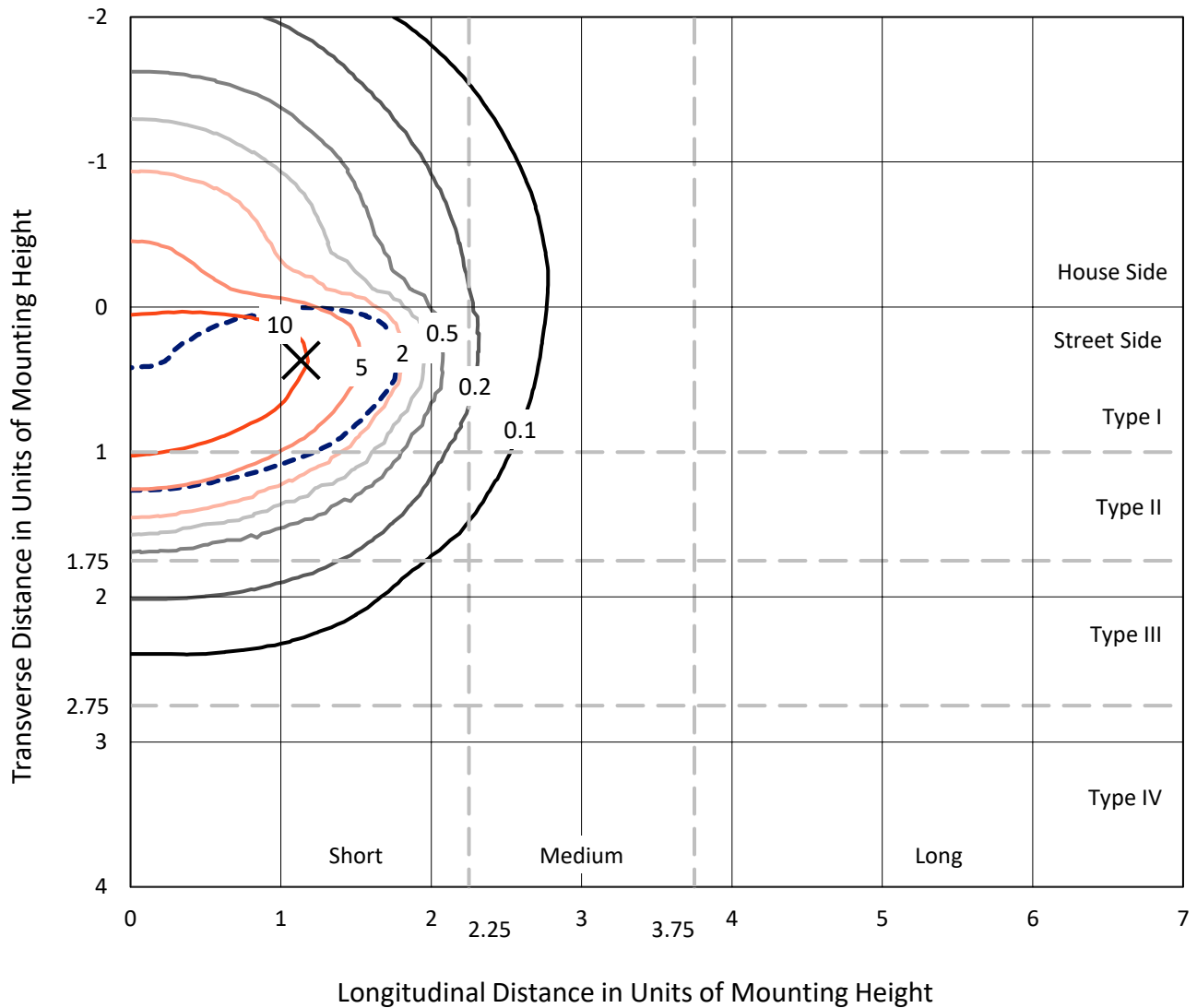
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

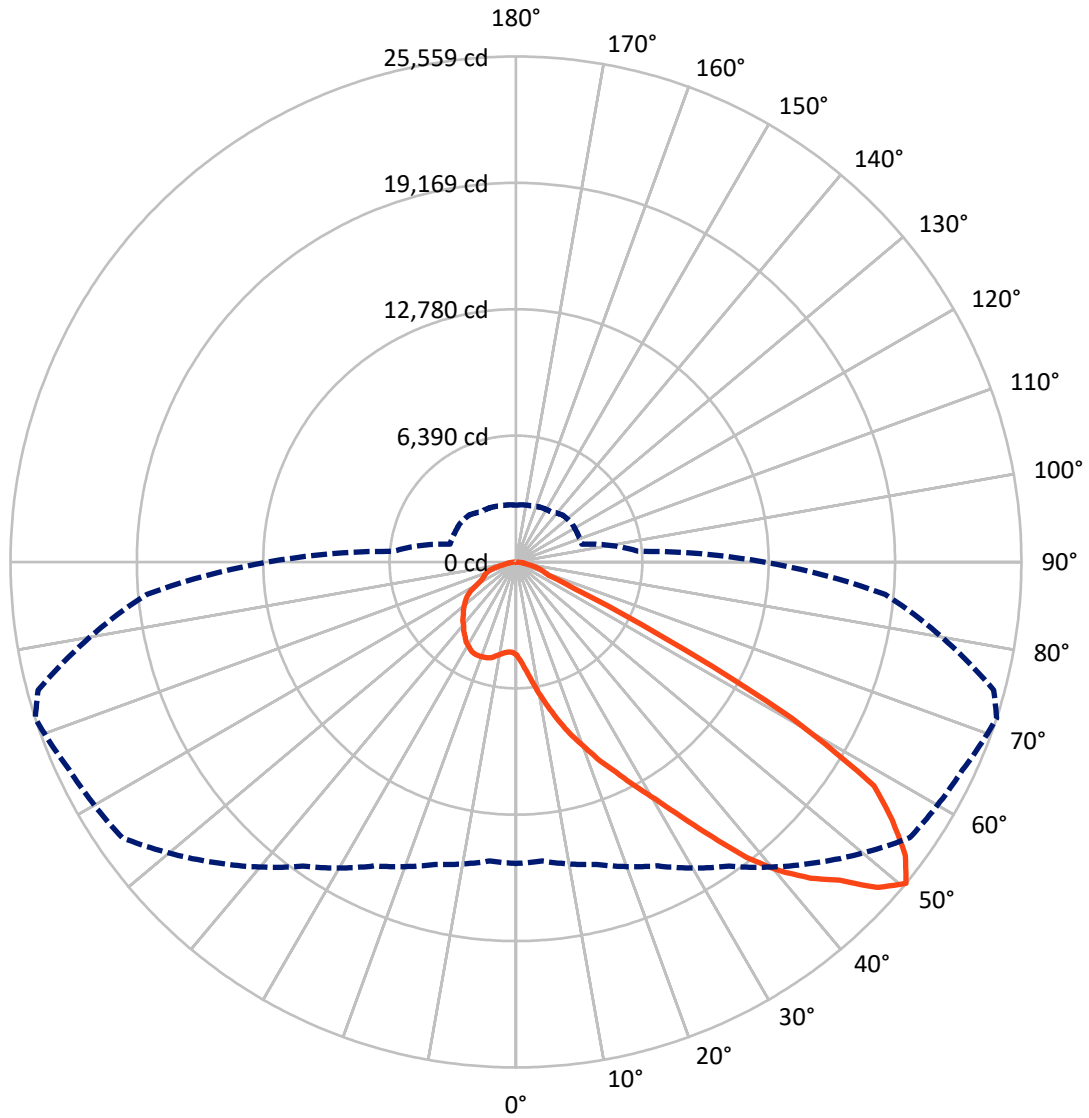
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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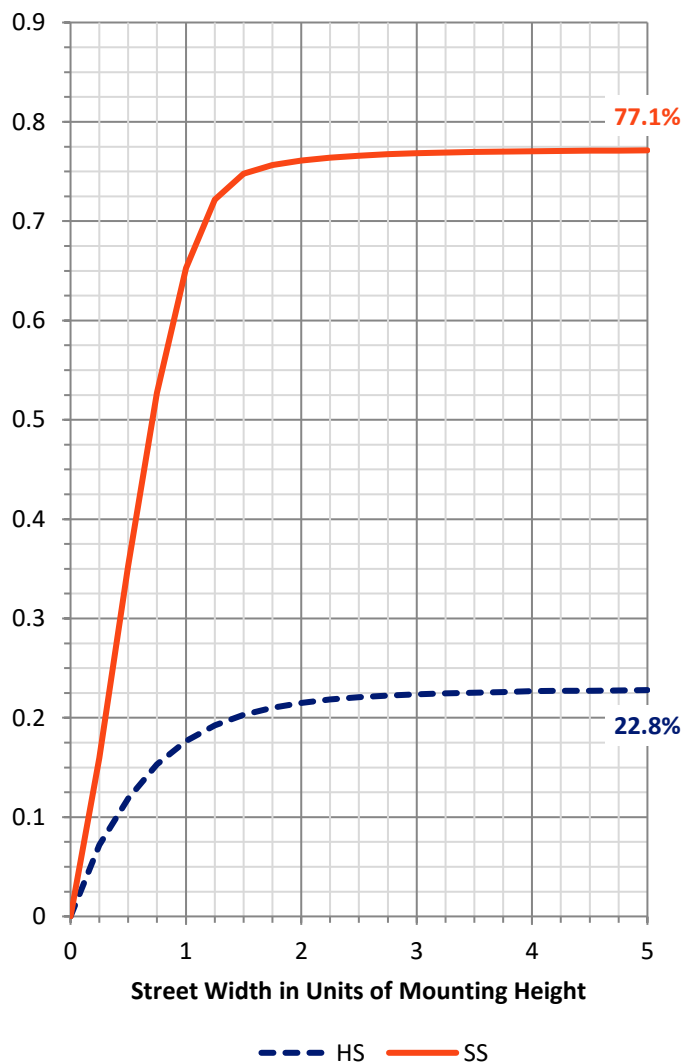
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7736.2	0.0	7736.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	26030.8	0.0	26030.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	33767.0	0.0	33767.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.9	1.6
10°-20°	2067.0	6.1
20°-30°	4007.7	11.9
30°-40°	6639.4	19.7
40°-50°	9290.0	27.5
50°-60°	7837.3	23.2
60°-70°	2388.8	7.1
70°-80°	838.1	2.5
80°-90°	145.7	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°	33767.0	100.0
0°-180°	33767.0	100.0



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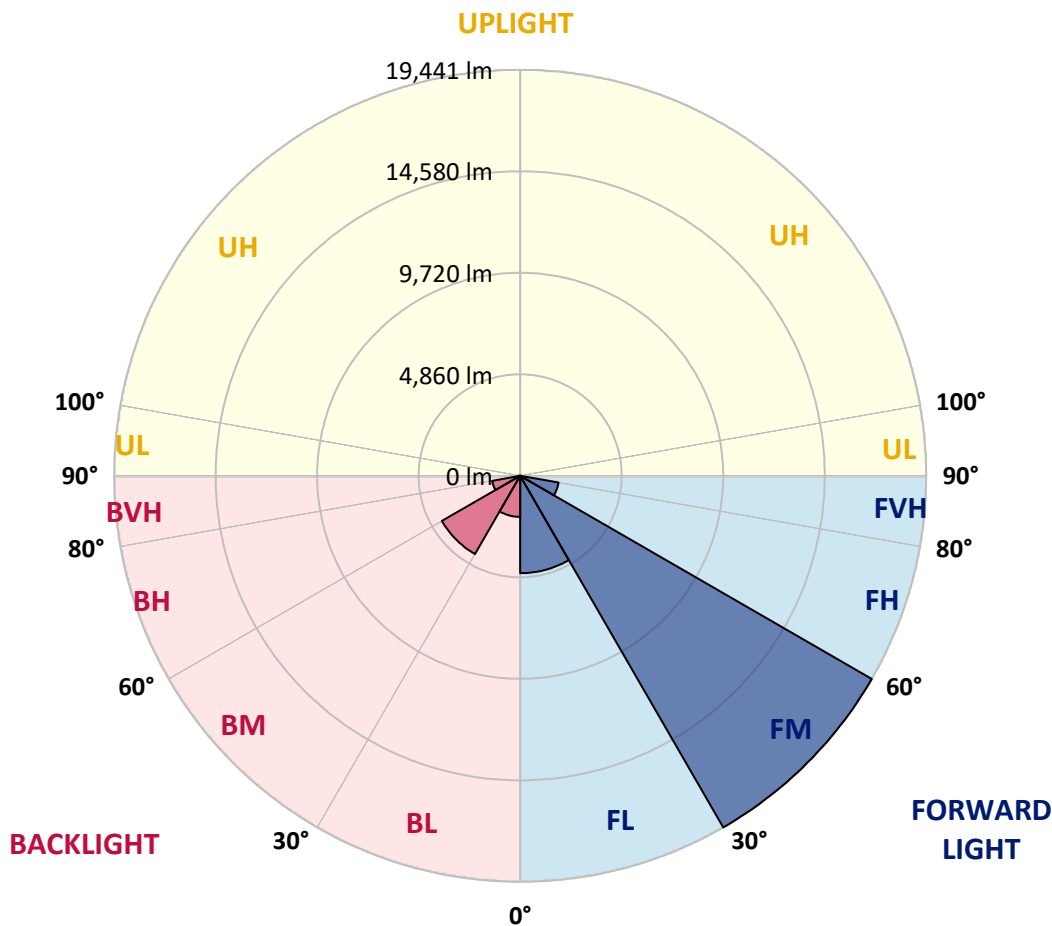
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4661.1	13.8			
FM (30°-60°)	19440.6	57.6			
FH (60°-80°)	1863.9	5.5			G2/5000
FVH (80°-90°)	65.3	0.2			G1/100
BL (0°-30°)	1966.6	5.8	B3/2500		
BM (30°-60°)	4326.2	12.8	B3/5000		
BH (60°-80°)	1363.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	80.4	0.2			G1/100
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°	65°	72°	75°	85°
0°	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7
2.5°	6046.1	6008.5	5895.7	5858.1	5724.4	5482.0	5398.4	5151.9	5047.5	4951.4	4838.5
5°	7646.4	7470.9	7458.4	7245.3	6936.1	6756.4	6221.6	5862.2	5532.1	5365.0	5055.8
7.5°	8665.9	8670.1	8670.1	8494.6	8248.1	7792.6	7312.1	6664.5	6167.3	5920.7	5394.3
10°	9635.3	9551.7	9505.8	9489.1	9321.9	8879.0	8365.1	7562.8	6881.8	6593.5	5649.1
12.5°	10320.5	10249.5	10354.0	10299.7	10178.5	9890.2	9405.5	8490.4	7638.0	7249.5	6058.6
15°	10646.5	10696.6	10780.2	10930.6	10876.3	10767.6	10232.8	9443.1	8452.8	8014.1	6422.1
17.5°	11147.9	11010.0	11110.3	11298.3	11448.7	11398.6	11093.5	10132.5	9259.2	8720.2	6911.0
20°	11498.8	11419.5	11469.6	11686.9	11799.7	12083.8	11925.0	11035.0	10032.2	9464.0	7487.6
22.5°	12501.7	12384.7	12221.7	12255.1	12296.9	12497.5	12535.1	12025.3	10930.6	10328.9	8035.0
25°	13738.4	13629.8	13437.6	13241.2	13120.0	13082.4	13212.0	12802.5	11791.3	11168.8	8624.1
27.5°	15100.6	14916.7	14795.6	14390.3	14064.4	14014.2	13951.5	13730.1	12810.9	12138.1	9288.5
30°	16425.1	16278.9	16115.9	15468.3	15129.8	15075.5	14766.3	14829.0	13918.1	13170.2	10040.6
32.5°	17427.9	17440.5	17068.6	16579.7	16262.2	15973.9	15861.1	16040.7	15338.8	14737.1	10880.4
35°	18238.5	18276.1	17921.0	17478.1	17135.5	17336.0	17285.9	17369.4	17035.2	16299.8	11858.2
37.5°	19028.2	18840.2	18460.0	18246.9	18067.2	18397.3	18823.5	18894.5	18957.2	18092.3	12994.7
40°	19157.8	19174.5	18953.0	19103.5	18877.8	19375.1	20365.3	20273.4	20528.3	19772.0	14227.3
42.5°	18973.9	19011.5	19099.3	19312.4	19855.6	20453.1	21923.9	21547.8	21857.0	21184.3	15426.5
45°	18673.1	18518.5	18627.1	19437.7	20377.9	21706.6	23348.7	23056.2	22955.9	22391.8	16855.5
47.5°	17235.7	17394.5	17733.0	18731.6	20143.9	21923.9	24359.8	24293.0	24593.8	24196.9	18155.0
50°	15242.7	15180.0	15831.8	16955.8	18777.5	21497.7	24305.5	24911.4	25559.0	25007.5	18735.8
52.5°	11415.3	11749.5	12309.4	13705.0	16304.0	19174.5	23118.9	24130.0	24656.5	24539.5	18267.8
55°	7216.0	7316.3	7654.8	9313.6	11653.4	15388.9	19818.0	22162.0	23102.1	23540.9	17837.4
57.5°	3505.6	3317.6	3731.3	5064.2	6731.3	10349.8	15284.4	19304.0	21347.2	22141.1	16901.5
60°	1830.1	1901.2	2064.1	2540.4	3480.6	5373.4	9526.7	12865.2	15986.4	17206.5	12810.9
62.5°	1516.7	1541.8	1650.5	1888.6	2314.8	3092.0	4863.6	6271.7	8152.0	9250.9	7287.1
65°	1286.9	1299.5	1416.5	1575.2	1846.8	2176.9	2502.8	2619.8	3171.4	3254.9	2590.6
67.5°	1073.8	1086.4	1211.7	1362.1	1537.6	1625.4	1708.9	1700.6	1763.3	1738.2	1734.0
70°	827.3	839.9	969.4	1128.2	1215.9	1165.8	1424.8	1483.3	1508.4	1529.3	1562.7
72.5°	597.5	622.6	722.9	835.7	789.7	906.7	1174.1	1261.9	1295.3	1307.8	1349.6
75°	434.5	442.9	468.0	434.5	501.4	630.9	827.3	936.0	977.7	990.3	1052.9
77.5°	192.2	196.4	200.6	250.7	321.7	392.8	493.0	580.8	639.3	656.0	672.7
80°	100.3	104.5	129.5	171.3	229.8	288.3	359.3	409.5	447.1	451.3	468.0
82.5°	62.7	66.9	91.9	121.2	163.0	213.1	263.2	305.0	334.3	338.4	342.6
85°	29.2	37.6	54.3	75.2	108.6	137.9	142.1	121.2	129.5	133.7	125.4
87.5°	8.4	12.5	16.7	12.5	16.7	16.7	20.9	25.1	25.1	25.1	29.2
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°	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7
2.5°	4775.9	4738.3	4592.0	4537.7	4395.6	4420.7	4345.5	4341.3	4324.6	4320.4	4316.2
5°	4892.9	4775.9	4600.4	4466.7	4387.3	4378.9	4324.6	4324.6	4341.3	4353.9	4324.6
7.5°	5085.1	4951.4	4654.7	4529.3	4458.3	4445.8	4408.2	4378.9	4416.5	4404.0	4370.6
10°	5306.5	5072.5	4759.2	4650.5	4533.5	4504.3	4504.3	4516.8	4454.1	4475.0	4441.6
12.5°	5553.0	5239.7	4892.9	4767.5	4629.6	4612.9	4604.6	4512.6	4546.1	4529.3	4445.8
15°	5866.4	5431.9	5064.2	4851.1	4734.1	4658.9	4550.2	4533.5	4512.6	4470.8	4433.2
17.5°	6204.9	5640.8	5143.6	4876.1	4700.7	4646.3	4562.8	4475.0	4412.3	4420.7	4391.5
20°	6493.2	5833.0	5172.8	4901.2	4675.6	4571.1	4441.6	4387.3	4320.4	4316.2	4312.1
22.5°	6835.8	6092.0	5214.6	4834.4	4600.4	4491.7	4404.0	4307.9	4261.9	4203.4	4232.7
25°	7245.3	6192.3	5222.9	4796.8	4546.1	4353.9	4307.9	4203.4	4186.7	4103.1	4119.9
27.5°	7541.9	6246.6	5156.1	4679.8	4420.7	4274.5	4190.9	4115.7	4086.4	4023.8	4007.0
30°	7938.9	6330.2	5014.0	4533.5	4295.4	4132.4	4082.3	4065.5	3982.0	3915.1	3906.8
32.5°	8390.1	6384.5	4922.1	4383.1	4165.8	4040.5	4065.5	3986.2	3881.7	3823.2	3806.5
35°	8749.5	6405.4	4692.3	4211.8	4078.1	3998.7	3969.4	3952.7	3802.3	3748.0	3706.2
37.5°	9296.8	6359.5	4500.1	4090.6	3982.0	3952.7	3927.7	3814.8	3643.5	3564.1	3505.6
40°	9936.1	6346.9	4253.6	3919.3	3890.1	3923.5	3848.3	3672.8	3434.6	3346.9	3305.1
42.5°	10550.4	6434.7	4099.0	3827.4	3789.8	3802.3	3697.8	3434.6	3317.6	3267.5	3200.6
45°	11578.2	6618.5	3844.1	3685.3	3668.6	3660.2	3534.9	3259.1	3192.3	3129.6	3117.1
47.5°	12505.8	6497.3	3681.1	3539.1	3555.8	3509.8	3242.4	3154.7	3079.5	3016.8	2995.9
50°	12560.1	6209.0	3451.3	3426.3	3430.4	3351.0	3096.2	3037.7	2941.6	2899.8	2870.5
52.5°	12276.0	5736.9	3238.2	3246.6	3259.1	3129.6	2916.5	2874.7	2795.3	2736.8	2720.1
55°	11478.0	5001.5	3029.3	3062.7	3096.2	2849.6	2782.8	2678.3	2615.7	2532.1	2536.3
57.5°	10111.6	4027.9	2736.8	2791.1	2862.2	2590.6	2540.4	2410.9	2319.0	2252.1	2243.8
60°	6777.3	2866.4	2298.1	2319.0	2477.8	2369.1	2365.0	2235.4	2110.1	2051.6	2018.1
62.5°	3998.7	2189.5	1984.7	1963.8	1959.7	2022.3	2126.8	2080.8	1917.9	1805.1	1838.5
65°	2093.4	1892.8	1846.8	1775.8	1734.0	1717.3	1796.7	1817.6	1708.9	1587.8	1579.4
67.5°	1759.1	1759.1	1721.5	1696.4	1637.9	1566.9	1516.7	1449.9	1433.2	1399.8	1358.0
70°	1600.3	1642.1	1629.6	1571.1	1520.9	1441.5	1312.0	1203.4	1098.9	1061.3	1086.4
72.5°	1395.6	1437.4	1437.4	1408.1	1341.3	1220.1	1094.7	969.4	881.6	814.8	806.4
75°	1073.8	1094.7	1144.9	1111.4	1023.7	948.5	819.0	689.4	605.9	543.2	530.7
77.5°	685.3	718.7	718.7	714.5	651.8	580.8	497.2	405.3	342.6	296.7	284.1
80°	455.4	476.3	493.0	476.3	434.5	380.2	317.6	254.9	208.9	171.3	163.0
82.5°	334.3	359.3	371.9	355.2	313.4	271.6	225.6	179.7	133.7	104.5	96.1
85°	129.5	133.7	150.4	179.7	175.5	171.3	137.9	100.3	75.2	54.3	50.1
87.5°	33.4	29.2	33.4	33.4	29.2	25.1	25.1	25.1	25.1	12.5	16.7
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)