

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: P532690

Luminaire Tested: **GALN-SA8A-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31484 lumens
Efficiency: N/A
Efficacy: 129.0 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

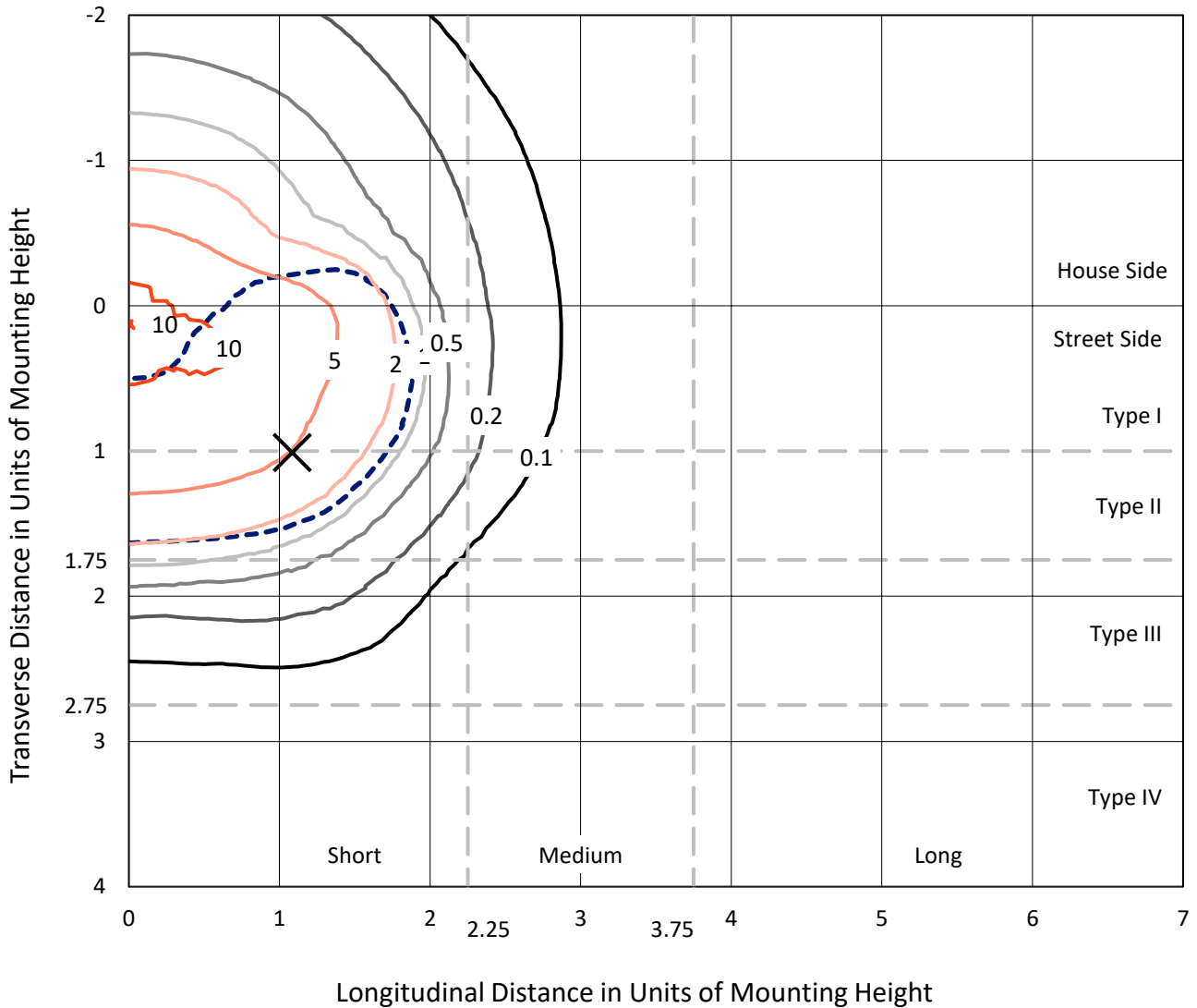
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

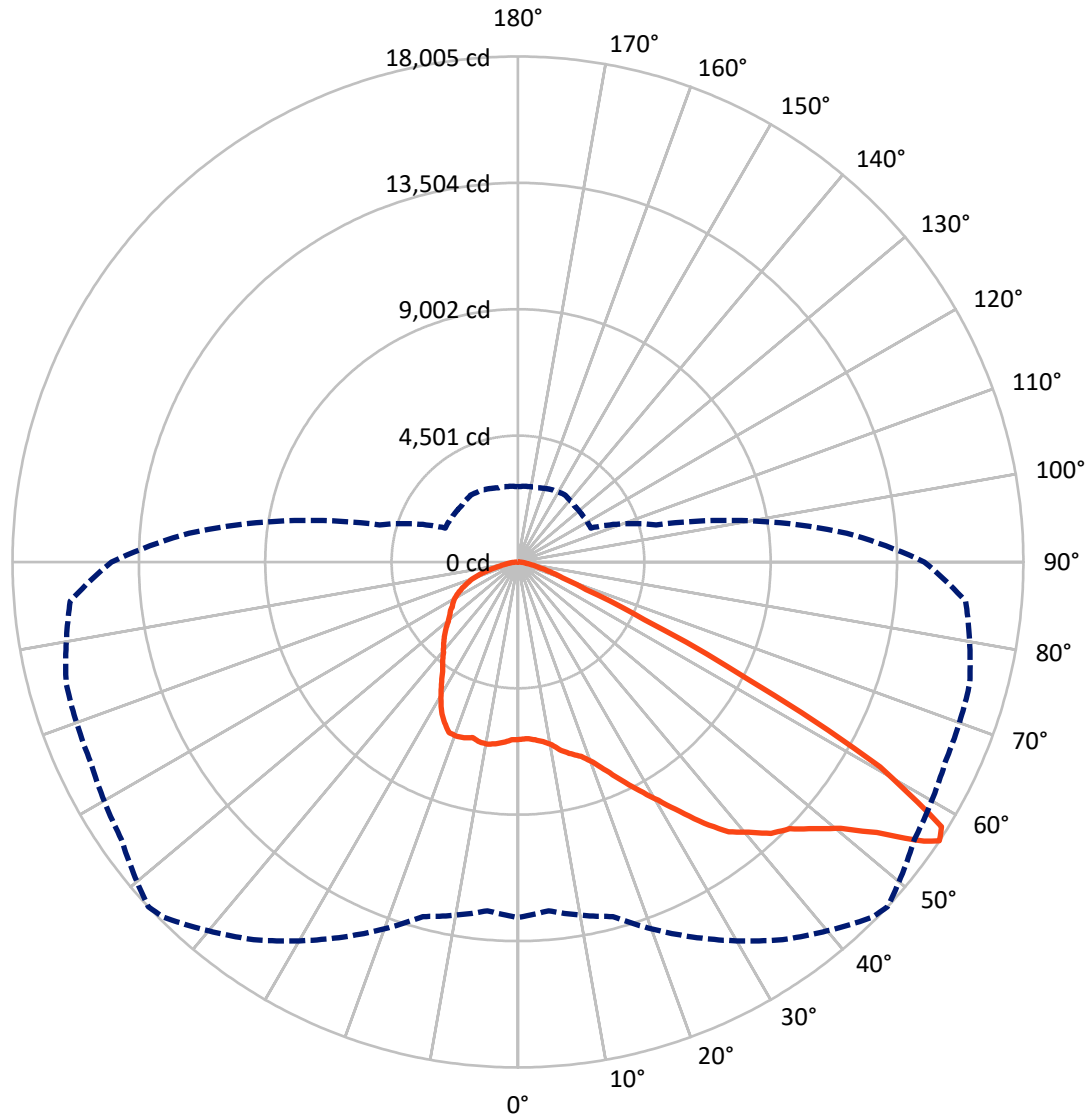
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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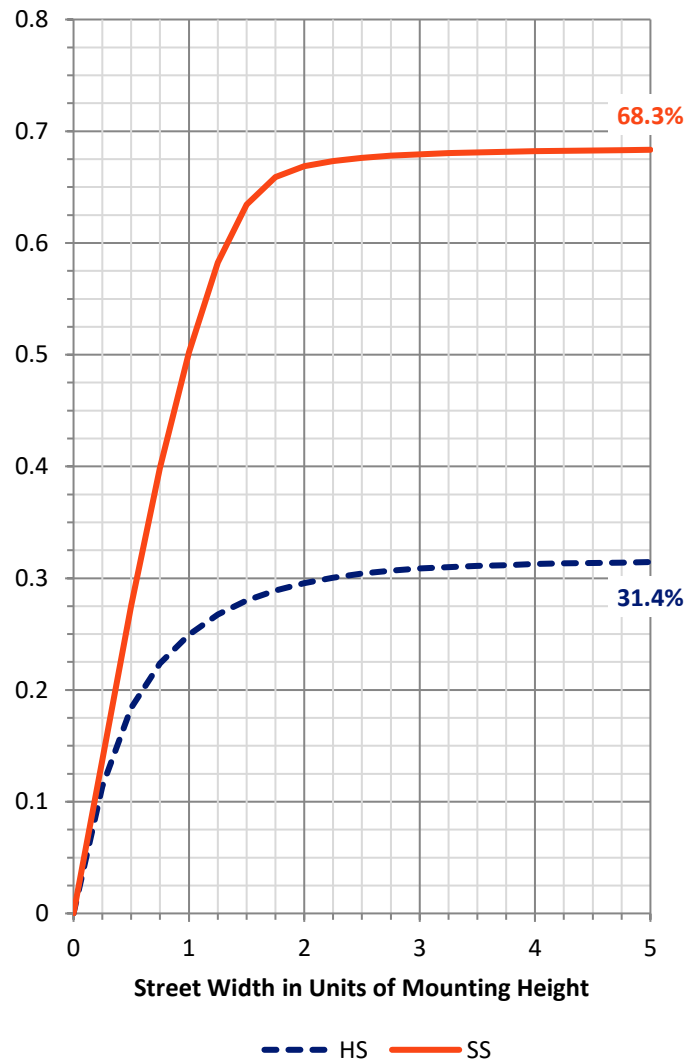
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9976.9	0.0	9976.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	21507.1	0.0	21507.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	31484.0	0.0	31484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.2	2.0
10°-20°	1943.8	6.2
20°-30°	3436.2	10.9
30°-40°	5161.1	16.4
40°-50°	7083.1	22.5
50°-60°	8438.5	26.8
60°-70°	3611.2	11.5
70°-80°	1022.0	3.2
80°-90°	172.0	0.5
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°	31484.0	100.0
0°-180°	31484.0	100.0



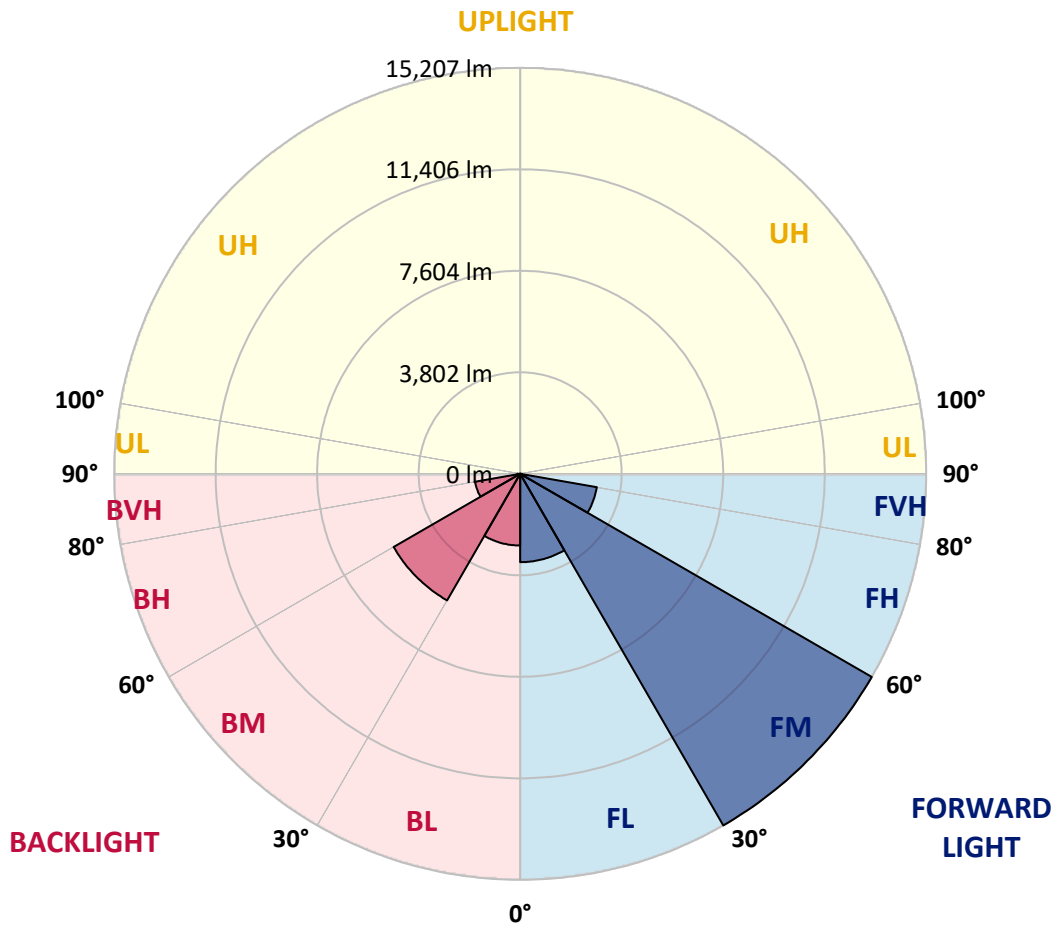
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3310.0	10.5			
FM (30°-60°)	15207.5	48.3			
FH (60°-80°)	2916.6	9.3			G2/5000
FVH (80°-90°)	73.0	0.2			G1/100
BL (0°-30°)	2686.2	8.5	B4/5000		
BM (30°-60°)	5475.1	17.4	B4/8500		
BH (60°-80°)	1716.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	99.0	0.3			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°	47°	55°	65°	75°	85°
0°	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2
2.5°	6300.1	6288.0	6280.0	6344.3	6320.2	6324.2	6300.1	6324.2	6340.2	6304.1	6356.3
5°	6288.0	6324.2	6292.1	6312.1	6364.3	6348.3	6364.3	6412.5	6400.5	6388.4	6372.4
7.5°	6400.5	6404.5	6428.6	6436.6	6452.7	6436.6	6460.7	6504.9	6492.8	6424.6	6432.6
10°	6561.1	6569.1	6573.1	6617.3	6645.4	6649.4	6621.3	6581.2	6577.1	6669.5	6605.3
12.5°	6745.8	6725.7	6773.9	6790.0	6822.1	6858.2	6894.4	6810.0	6862.2	6866.3	6790.0
15°	7014.8	7034.9	6978.7	6978.7	6990.7	6994.7	7095.1	7055.0	7046.9	7002.8	7034.9
17.5°	7416.4	7279.8	7275.8	7219.6	7211.6	7243.7	7279.8	7312.0	7420.4	7332.0	7159.4
20°	7709.5	7741.6	7625.2	7556.9	7568.9	7641.2	7605.1	7749.6	7825.9	7681.4	7512.7
22.5°	8227.5	8119.0	8147.1	7994.6	8006.6	8082.9	8078.9	8227.5	8271.6	8042.7	7797.8
25°	8576.8	8548.7	8572.8	8452.3	8468.4	8528.6	8625.0	8869.9	8797.6	8544.7	7978.5
27.5°	9086.7	9030.5	9010.4	8966.3	8950.2	9110.8	9223.3	9484.3	9432.1	9062.6	8299.7
30°	9608.7	9572.6	9592.7	9412.0	9476.2	9817.5	9849.7	10207.0	10182.9	9532.4	8657.1
32.5°	9970.1	9990.2	10026.3	9925.9	10211.0	10484.1	10592.5	10998.0	11018.1	10339.5	9347.7
35°	10552.3	10484.1	10504.2	10620.6	10753.1	11251.0	11427.7	11696.7	11865.4	11186.8	10010.3
37.5°	10917.7	10990.0	10905.7	11090.4	11435.7	12034.0	12194.6	12471.7	12648.4	12022.0	10913.7
40°	11487.9	11371.5	11431.7	11564.2	11917.6	12696.5	12652.4	12937.5	12993.7	12732.7	11756.9
42.5°	12102.3	12046.1	11961.7	12262.9	12560.0	13126.2	13214.5	13082.0	13367.1	13427.3	12961.6
45°	12837.1	12905.3	12917.4	12925.4	13186.4	13680.3	13559.8	13443.4	13772.7	14210.3	13708.4
47.5°	13519.7	13302.9	13459.5	13676.3	14045.7	14049.7	14190.3	13913.2	14262.5	14652.0	14383.0
50°	13748.6	13644.2	13853.0	14262.5	14832.7	14892.9	14909.0	14515.5	14696.2	15005.4	14615.9
52.5°	13660.2	13624.1	14158.1	14792.6	15627.7	15932.9	16013.2	15527.4	15627.7	15487.2	15129.8
55°	13238.6	13347.0	13885.1	15178.0	16458.9	17402.5	17555.1	16940.8	16302.3	16410.7	16017.2
56°	12660.4	12471.7	13074.0	14740.4	16422.8	17880.4	18004.8	17237.9	16804.2	16663.7	16009.2
57.5°	10741.1	10496.1	11287.2	13262.7	15511.3	17699.7	17792.0	17362.4	16719.9	16434.8	14840.7
60°	6288.0	6408.5	7412.3	9147.0	11965.7	14511.5	14820.7	15133.9	14704.2	13427.3	11046.2
62.5°	3035.6	2959.3	3678.1	5244.0	7291.9	9263.4	9171.1	10050.4	10532.3	9540.5	6974.7
65°	1590.1	1582.0	2007.7	2862.9	4007.3	4866.6	4950.9	5424.7	6087.3	4914.8	3541.5
67.5°	1168.5	1200.6	1413.4	2011.7	2577.9	2630.1	2618.0	2854.9	2919.2	2469.4	2176.3
70°	915.5	931.6	1088.2	1529.8	1919.3	1718.6	1682.4	1710.5	1899.3	1979.6	1883.2
72.5°	662.5	678.6	811.1	1031.9	1200.6	1172.5	1196.6	1353.2	1586.1	1670.4	1570.0
75°	441.7	453.7	526.0	630.4	710.7	766.9	811.1	991.8	1208.6	1256.8	1208.6
77.5°	305.2	317.2	365.4	445.7	453.7	489.9	505.9	590.3	722.8	783.0	750.9
80°	172.7	172.7	196.8	228.9	281.1	329.3	337.3	405.6	465.8	505.9	514.0
82.5°	80.3	84.3	104.4	140.5	184.7	228.9	236.9	281.1	325.2	365.4	377.4
85°	40.2	44.2	60.2	84.3	112.4	136.5	132.5	136.5	144.6	136.5	140.5
87.5°	12.0	12.0	16.1	20.1	16.1	20.1	20.1	24.1	28.1	32.1	36.1
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°	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2	6324.2
2.5°	6360.3	6372.4	6292.1	6368.3	6340.2	6336.2	6392.4	6384.4	6404.5	6396.5	6348.3
5°	6364.3	6336.2	6420.5	6344.3	6380.4	6456.7	6404.5	6524.9	6464.7	6504.9	6416.5
7.5°	6488.8	6496.8	6480.8	6512.9	6496.8	6533.0	6504.9	6533.0	6484.8	6488.8	6569.1
10°	6597.2	6573.1	6601.2	6561.1	6589.2	6577.1	6512.9	6492.8	6508.9	6488.8	6541.0
12.5°	6798.0	6753.8	6733.7	6685.6	6653.4	6533.0	6432.6	6376.4	6452.7	6464.7	6440.6
15°	7002.8	7006.8	6914.4	6806.0	6605.3	6424.6	6448.7	6468.7	6468.7	6500.9	6440.6
17.5°	7131.3	7131.3	7046.9	6830.1	6625.3	6520.9	6496.8	6432.6	6376.4	6368.3	6364.3
20°	7356.1	7287.9	7095.1	6826.1	6617.3	6569.1	6388.4	6235.8	6119.4	6079.2	6075.2
22.5°	7613.1	7440.4	7171.4	6834.1	6605.3	6537.0	6199.7	5970.8	5762.0	5673.7	5685.7
25°	7850.0	7573.0	7215.6	6798.0	6561.1	6231.8	5854.4	5537.2	5320.3	5248.1	5211.9
27.5°	8014.6	7713.5	7215.6	6830.1	6396.5	5890.5	5505.0	5099.5	4910.8	4862.6	4870.6
30°	8235.5	7890.2	7340.1	6761.9	6067.2	5448.8	4987.1	4722.1	4609.6	4569.5	4597.6
32.5°	8753.5	8351.9	7512.7	6597.2	5677.7	5007.1	4633.7	4485.1	4320.5	4240.2	4212.1
35°	9315.6	8789.6	7681.4	6320.2	5240.0	4605.6	4372.7	4236.2	4039.4	3951.1	3967.2
37.5°	10110.7	9351.8	7693.4	5862.4	4766.2	4380.7	4167.9	3955.1	3794.5	3658.0	3617.8
40°	11182.8	10118.7	7665.3	5380.6	4384.8	4115.7	3959.1	3694.1	3513.4	3417.1	3437.1
42.5°	12126.4	11018.1	7548.9	4834.5	4039.4	3935.0	3758.4	3497.4	3320.7	3220.3	3212.3
45°	12921.4	11680.7	7328.0	4368.7	3750.3	3734.3	3529.5	3328.7	3188.2	3095.8	3136.0
47.5°	13656.2	12214.7	6994.7	3902.9	3485.3	3517.4	3320.7	3196.2	3107.9	3023.6	3019.5
50°	13921.2	12206.7	6701.6	3517.4	3272.5	3256.5	3248.4	3115.9	3023.6	2951.3	2983.4
52.5°	14362.9	12343.2	6384.4	3252.4	3079.8	3083.8	3111.9	3015.5	2911.1	2867.0	2907.1
55°	14997.3	12363.3	5685.7	2943.3	2919.2	2947.3	2947.3	2883.0	2794.7	2758.5	2738.5
56°	14479.4	11765.0	5099.5	2862.9	2838.9	2838.9	2915.1	2842.9	2734.5	2706.3	2682.3
57.5°	13355.1	10307.4	4268.3	2766.6	2730.4	2786.7	2826.8	2750.5	2650.1	2610.0	2634.1
60°	9211.2	6974.7	3208.3	2557.8	2557.8	2650.1	2682.3	2569.8	2525.7	2521.6	2489.5
62.5°	5376.6	4063.5	2509.6	2369.1	2377.1	2453.4	2477.5	2413.2	2357.0	2425.3	2457.4
65°	2850.9	2425.3	2152.2	2168.3	2172.3	2232.5	2336.9	2332.9	2328.9	2349.0	2353.0
67.5°	2063.9	2015.7	1955.5	1939.4	1947.4	1991.6	2096.0	2176.3	2172.3	2124.1	2088.0
70°	1839.0	1770.8	1734.6	1738.6	1706.5	1758.7	1843.0	1895.2	1802.9	1746.7	1722.6
72.5°	1529.8	1509.8	1485.7	1489.7	1425.4	1413.4	1317.0	1317.0	1292.9	1276.9	1305.0
75°	1168.5	1160.4	1172.5	1152.4	1084.1	1011.9	955.7	903.5	823.1	791.0	775.0
77.5°	738.8	762.9	791.0	746.9	718.7	666.5	610.3	558.1	493.9	457.8	457.8
80°	501.9	522.0	542.1	534.0	501.9	453.7	409.6	353.4	309.2	281.1	277.1
82.5°	381.5	397.5	425.6	393.5	361.4	321.2	285.1	244.9	204.8	172.7	172.7
85°	136.5	156.6	172.7	188.7	200.8	204.8	176.7	144.6	116.4	92.4	88.3
87.5°	36.1	40.2	44.2	40.2	40.2	40.2	44.2	40.2	36.1	28.1	28.1
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)