

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640752

Luminaire Tested: GWS-SA5E-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32041.2 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

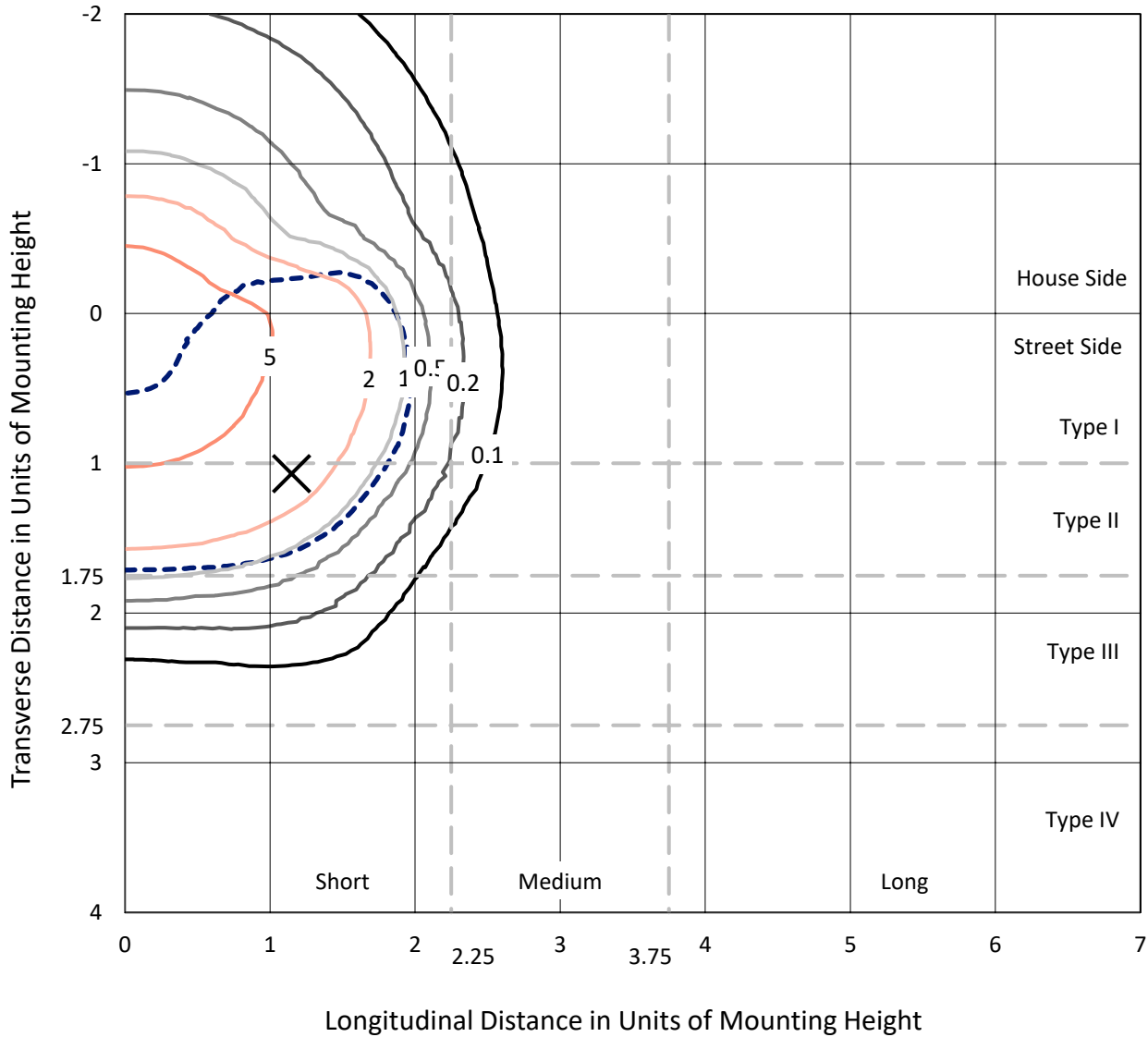
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

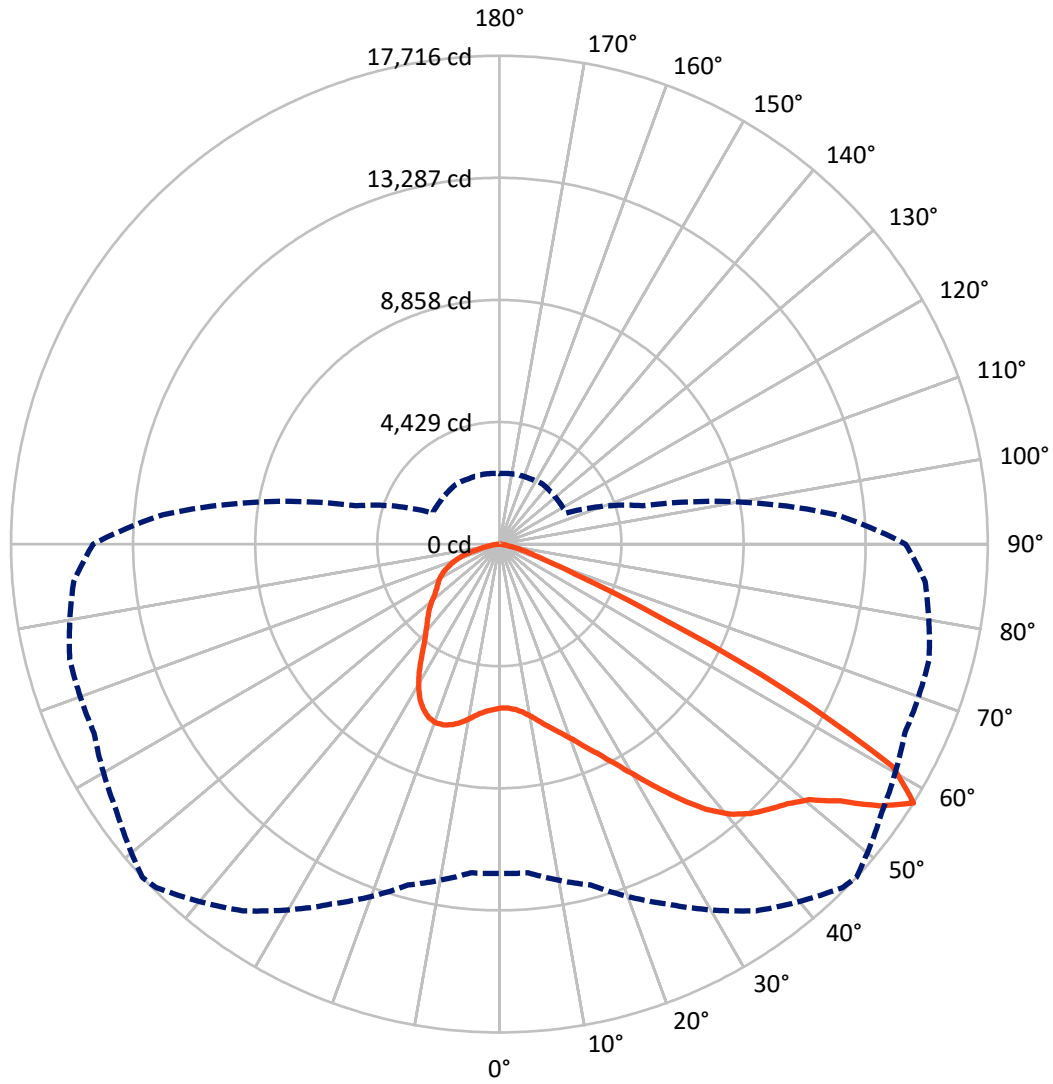
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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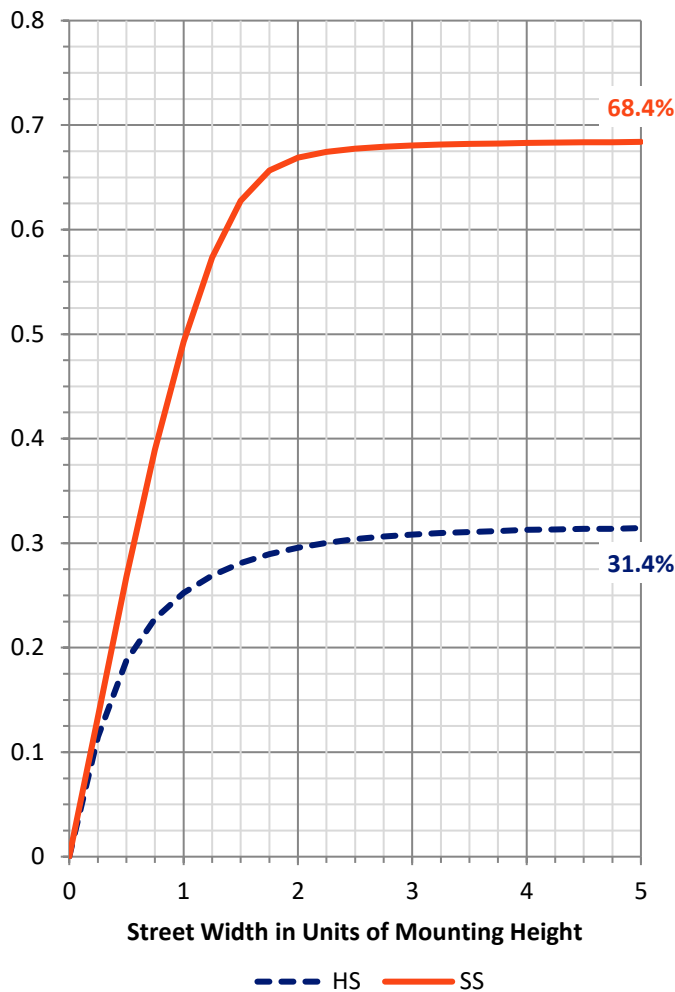
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10141.0	0.0	10141.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21900.2	0.0	21900.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	32041.2	0.0	32041.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.1	1.8
10°-20°	1927.6	6.0
20°-30°	3470.9	10.8
30°-40°	5242.4	16.4
40°-50°	7059.6	22.0
50°-60°	8483.0	26.5
60°-70°	4131.4	12.9
70°-80°	1017.8	3.2
80°-90°	122.3	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°	32041.2	100.0
0°-180°	32041.2	100.0

Coefficient of Utilization



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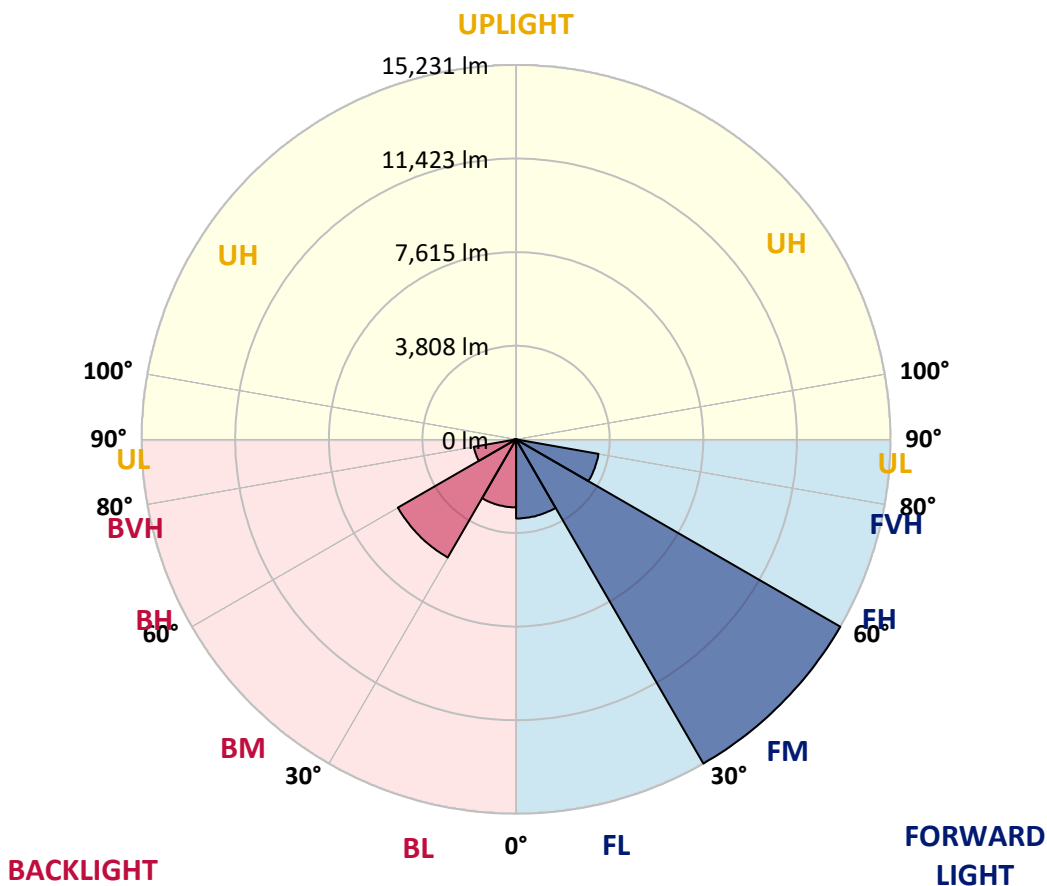
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3218.4	10.0			
FM (30°-60°)	15230.9	47.5			
FH (60°-80°)	3405.0	10.6			G2/5000
FVH (80°-90°)	46.0	0.1			G1/100
BL (0°-30°)	2766.3	8.6	B4/5000		
BM (30°-60°)	5554.2	17.3	B4/8500		
BH (60°-80°)	1744.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	76.3	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°	47°	55°	65°	75°	85°
0°	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1
2.5°	5931.3	5928.6	5928.6	5944.8	5944.8	5950.2	5958.2	5966.3	5969.0	5955.5	5925.9
5°	5995.9	5995.9	5995.9	6009.4	6009.4	6014.7	6025.5	6028.2	6025.5	6004.0	5974.4
7.5°	6098.2	6098.2	6100.9	6117.0	6130.5	6138.5	6157.4	6154.7	6146.6	6111.6	6074.0
10°	6265.0	6273.1	6281.2	6300.0	6326.9	6345.8	6359.2	6359.2	6348.5	6294.6	6246.2
12.5°	6501.8	6512.6	6520.7	6536.8	6558.4	6590.7	6620.3	6620.3	6606.8	6539.5	6466.9
15°	6779.0	6789.8	6787.1	6792.5	6832.9	6878.6	6902.8	6919.0	6924.4	6830.2	6717.1
17.5°	7096.6	7107.4	7096.6	7080.4	7085.8	7158.5	7201.6	7260.8	7295.7	7169.3	6988.9
20°	7384.5	7373.8	7373.8	7384.5	7400.7	7489.5	7554.1	7651.0	7694.0	7540.6	7260.8
22.5°	7688.7	7712.9	7702.1	7702.1	7766.7	7914.7	7992.8	8119.2	8165.0	7965.8	7589.1
25°	8081.6	8103.1	8097.7	8103.1	8178.4	8388.4	8466.4	8700.5	8746.3	8461.0	7952.4
27.5°	8512.1	8547.1	8563.3	8557.9	8679.0	8953.5	9050.4	9376.0	9459.4	9015.4	8339.9
30°	9071.9	9109.6	9123.0	9117.7	9260.3	9634.4	9744.7	10116.1	10234.5	9672.0	8832.4
32.5°	9720.5	9758.2	9798.5	9814.7	9997.7	10379.8	10538.6	10923.4	11093.0	10430.9	9427.1
35°	10363.7	10396.0	10474.0	10600.5	10850.8	11241.0	11380.9	11760.4	11924.5	11219.5	10145.7
37.5°	11074.1	11095.7	11162.9	11337.9	11698.5	12069.9	12209.8	12573.1	12591.9	11981.1	10958.4
40°	11851.9	11851.9	11838.4	12010.7	12387.4	12761.5	12882.6	13092.5	12982.2	12567.7	11749.6
42.5°	12511.2	12500.4	12511.2	12672.7	12952.6	13256.7	13361.6	13321.3	13181.3	13017.2	12465.5
45°	13106.0	13114.0	13210.9	13334.7	13480.0	13660.3	13722.2	13493.5	13367.0	13377.8	13038.7
47.5°	13509.6	13517.7	13743.8	13951.0	14039.8	14096.3	14069.4	13751.8	13687.3	13808.4	13480.0
50°	13563.5	13606.5	13996.7	14421.9	14642.6	14650.7	14575.3	14187.8	14169.0	14306.2	13716.9
52.5°	13574.2	13617.3	14104.4	14871.4	15444.6	15565.7	15479.6	15075.9	14879.4	14742.2	14007.5
55°	13533.9	13582.3	14120.5	15172.8	16270.8	16755.2	16763.3	16192.7	15565.7	15474.2	14836.4
57.5°	11948.8	11967.6	12801.9	14405.8	16238.5	17611.0	17715.9	16940.9	16225.0	16138.9	15501.1
60°	8323.8	8399.1	9306.0	11424.0	13641.5	16060.9	16399.9	16173.9	15694.9	15067.8	13299.7
62.5°	4168.6	4233.2	5142.8	7145.0	9408.3	11319.0	11682.3	11921.8	12034.9	11362.1	9055.8
65°	1795.0	1843.4	2408.6	3732.6	5325.8	6248.9	6375.4	6663.3	7368.4	6574.5	4879.1
67.5°	1200.3	1232.6	1520.5	2276.7	3137.9	3197.1	3178.3	3240.2	3393.6	2801.5	2204.1
70°	920.4	947.3	1141.1	1668.5	2255.2	1929.6	1827.3	1657.8	1800.4	1835.4	1786.9
72.5°	667.4	688.9	834.3	1138.4	1412.9	1232.6	1216.4	1302.5	1496.3	1550.1	1520.5
75°	430.6	441.4	530.2	624.3	729.3	791.2	823.5	979.6	1176.0	1216.4	1181.4
77.5°	288.0	296.0	347.2	401.0	414.4	417.1	427.9	497.9	632.4	707.8	699.7
80°	150.7	150.7	169.5	169.5	193.8	231.4	242.2	288.0	349.9	387.5	390.2
82.5°	59.2	61.9	72.7	80.7	96.9	118.4	126.5	150.7	183.0	209.9	234.1
85°	24.2	26.9	29.6	35.0	43.1	53.8	56.5	64.6	86.1	107.6	121.1
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	8.1	10.8	13.5	24.2	32.3
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°	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1	5942.1
2.5°	5960.9	5925.9	5960.9	5971.7	6001.3	6012.1	5993.2	5990.5	5990.5	5963.6	5955.5
5°	6001.3	5969.0	6004.0	6020.1	6063.2	6090.1	6095.5	6117.0	6130.5	6119.7	6117.0
7.5°	6100.9	6060.5	6098.2	6122.4	6178.9	6222.0	6240.8	6289.2	6324.2	6318.8	6316.2
10°	6275.8	6222.0	6265.0	6305.4	6367.3	6418.4	6421.1	6448.0	6483.0	6472.2	6466.9
12.5°	6477.6	6426.5	6474.9	6515.3	6588.0	6609.5	6574.5	6563.7	6569.1	6555.7	6544.9
15°	6725.2	6652.6	6695.6	6741.4	6781.7	6757.5	6682.2	6652.6	6649.9	6631.0	6620.3
17.5°	6972.8	6881.3	6913.6	6937.8	6919.0	6843.6	6749.4	6698.3	6674.1	6636.4	6625.6
20°	7217.7	7102.0	7096.6	7077.8	6991.6	6854.4	6727.9	6625.6	6563.7	6512.6	6493.8
22.5°	7497.6	7336.1	7255.4	7169.3	6980.9	6757.5	6566.4	6421.1	6321.5	6257.0	6235.4
25°	7799.0	7570.2	7403.4	7231.2	6873.2	6550.3	6283.9	6084.7	5966.3	5896.3	5872.1
27.5°	8097.7	7782.8	7532.6	7239.2	6657.9	6251.6	5893.6	5624.5	5506.1	5449.6	5430.8
30°	8501.4	8065.4	7686.0	7134.3	6375.4	5837.1	5390.4	5118.6	5040.5	5000.2	4984.0
32.5°	8967.0	8423.3	7890.5	6913.6	6014.7	5352.7	4881.8	4693.4	4639.6	4561.5	4558.8
35°	9580.5	8934.7	8084.3	6588.0	5559.9	4833.3	4491.6	4357.0	4260.1	4136.3	4125.6
37.5°	10296.4	9572.5	8189.2	6173.5	5029.8	4405.4	4200.9	4050.2	3894.1	3730.0	3708.4
40°	11036.5	10317.9	8197.3	5683.7	4510.4	4122.9	3950.6	3754.2	3560.4	3377.4	3353.2
42.5°	11814.2	11012.2	8054.6	5118.6	4085.2	3878.0	3703.0	3455.5	3237.5	3113.7	3100.2
45°	12508.5	11572.0	7731.7	4523.8	3770.3	3673.4	3450.1	3183.6	3067.9	2979.1	2960.3
47.5°	13054.8	11943.4	7295.7	3991.0	3514.7	3463.5	3172.9	3035.6	2946.8	2866.1	2847.2
50°	13323.9	12026.8	6727.9	3557.7	3277.8	3215.9	3016.8	2911.8	2852.6	2788.0	2771.9
52.5°	13657.6	12121.0	6238.1	3194.4	3046.4	2963.0	2887.6	2804.2	2761.1	2720.8	2707.3
55°	14424.6	12476.2	5979.8	2903.8	2825.7	2788.0	2777.3	2707.3	2693.9	2666.9	2642.7
57.5°	14736.8	12247.5	5368.9	2666.9	2650.8	2656.2	2683.1	2618.5	2605.0	2572.8	2556.6
60°	11851.9	9257.6	3635.8	2462.4	2505.5	2540.5	2567.4	2502.8	2483.9	2478.6	2457.0
62.5°	7594.5	5694.5	2537.8	2271.3	2335.9	2379.0	2395.1	2333.2	2319.8	2362.8	2365.5
65°	3953.3	3102.9	2058.7	2066.8	2120.6	2185.2	2217.5	2196.0	2190.6	2236.4	2239.0
67.5°	2018.4	1897.3	1795.0	1824.6	1867.7	1951.1	2026.4	2120.6	2152.9	2158.3	2161.0
70°	1719.7	1665.8	1614.7	1633.5	1679.3	1725.0	1797.7	1843.4	1789.6	1776.2	1770.8
72.5°	1464.0	1423.6	1399.4	1420.9	1445.2	1437.1	1415.6	1437.1	1445.2	1447.8	1450.5
75°	1138.4	1108.8	1089.9	1092.6	1092.6	1063.0	1022.6	998.4	971.5	950.0	950.0
77.5°	697.0	702.4	721.2	718.5	715.8	705.1	664.7	643.2	578.6	559.8	559.8
80°	398.3	406.4	425.2	430.6	430.6	417.1	376.8	352.5	322.9	309.5	306.8
82.5°	242.2	253.0	263.7	269.1	271.8	255.7	220.7	201.8	185.7	172.2	172.2
85°	126.5	131.9	142.6	145.3	137.2	121.1	102.3	94.2	78.0	75.4	75.4
87.5°	35.0	37.7	43.1	35.0	32.3	24.2	13.5	10.8	5.4	2.7	2.7
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)