

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: P640676

Luminaire Tested: GWS-SA5E-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36278.9 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

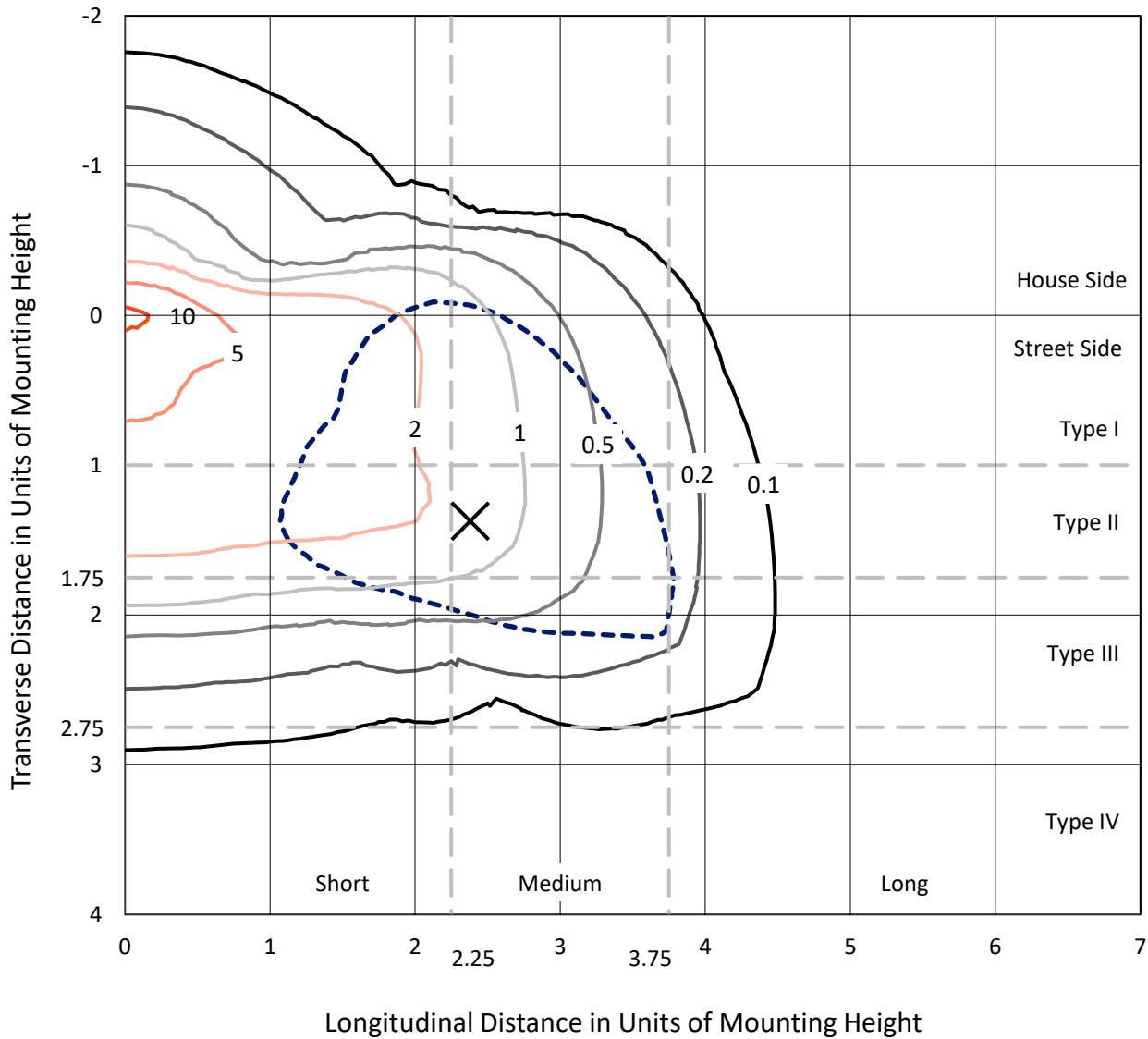


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Iso-Footcandle Lines of Horizontal Illumination

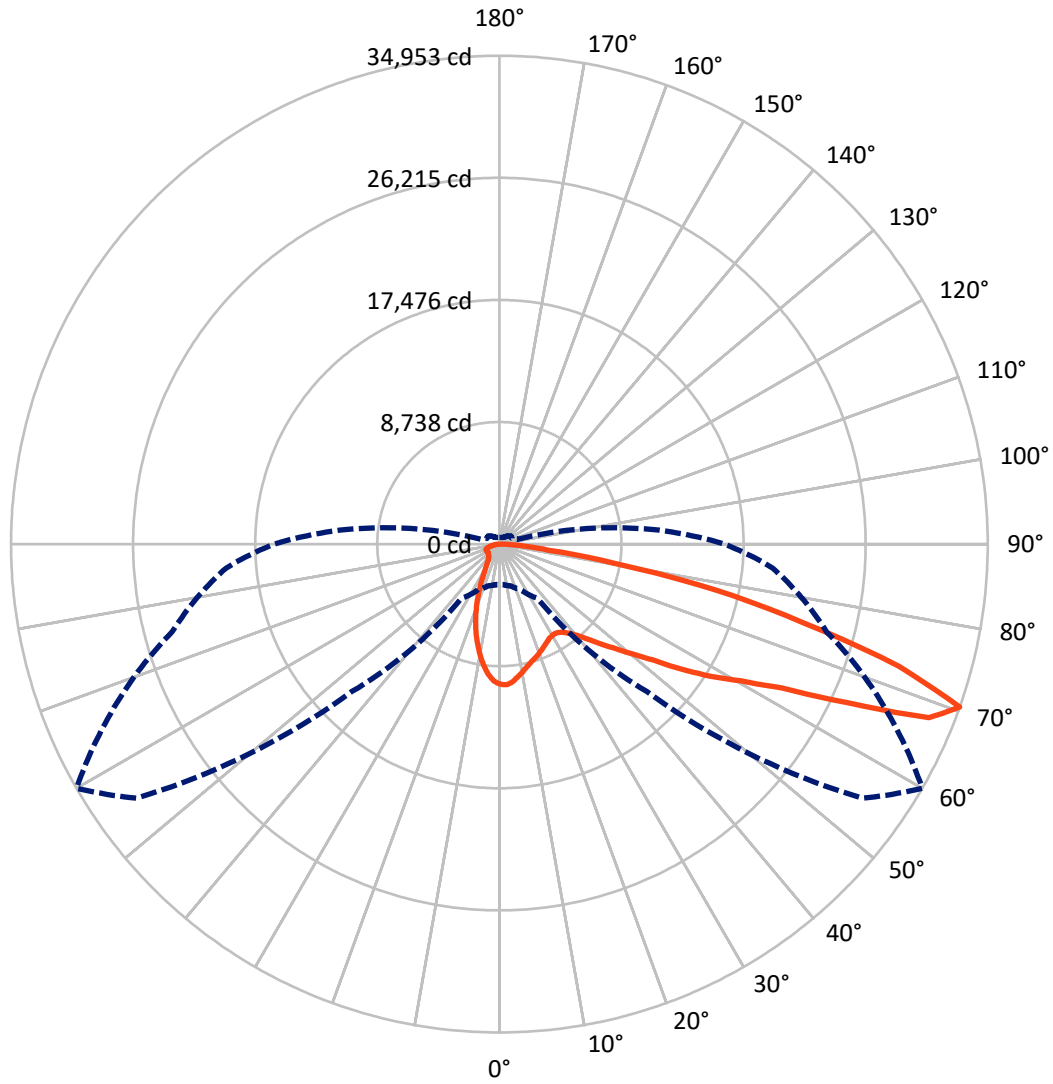
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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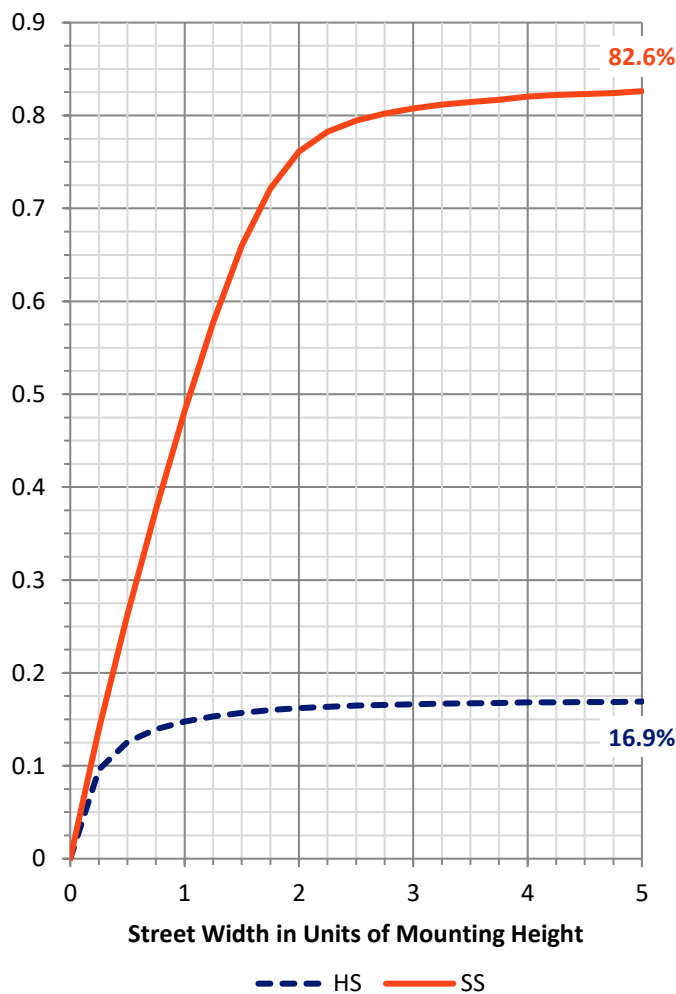
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6204.5	0.0	6204.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	30074.4	0.0	30074.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	36278.9	0.0	36278.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.3	2.4
10°-20°	1938.6	5.3
20°-30°	2482.7	6.8
30°-40°	3262.8	9.0
40°-50°	4733.8	13.0
50°-60°	7385.9	20.4
60°-70°	9669.6	26.7
70°-80°	5346.9	14.7
80°-90°	593.4	1.6
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°	36278.9	100.0
0°-180°	36278.9	100.0

Coefficient of Utilization



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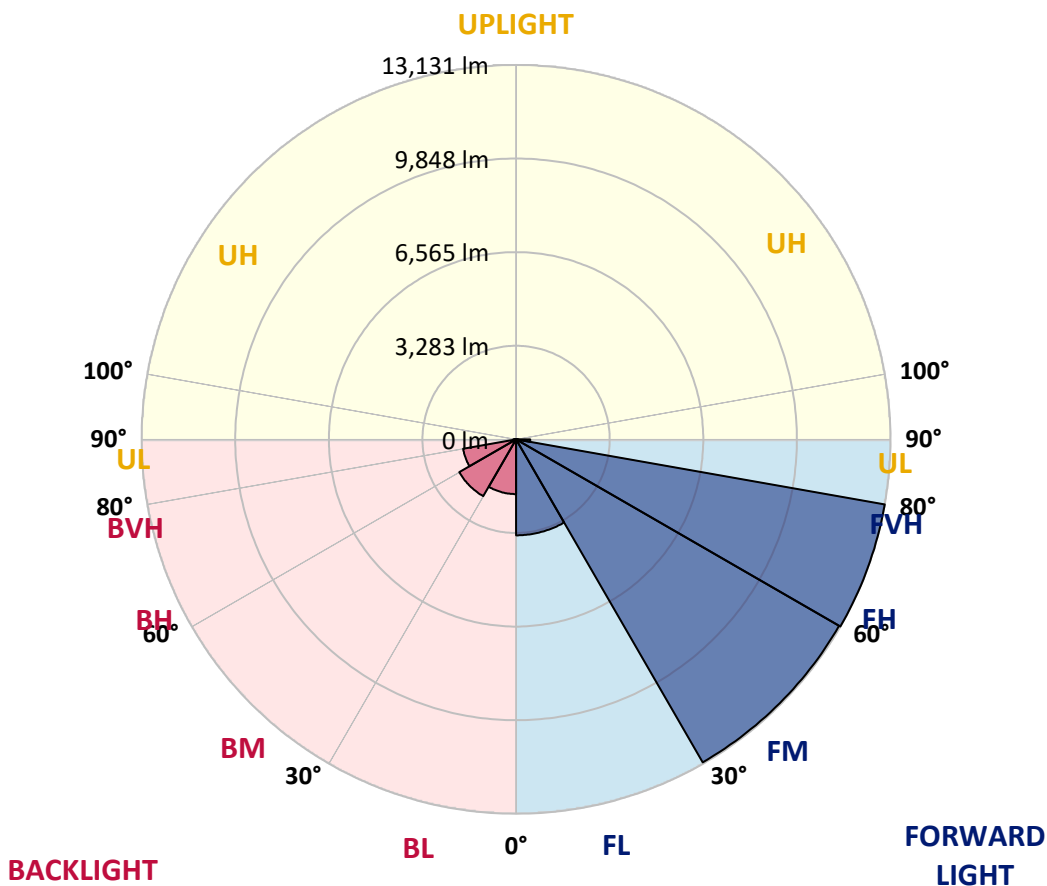
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3366.9	9.3			
FM (30°-60°)	13082.0	36.1			
FH (60°-80°)	13131.0	36.2			G5
FVH (80°-90°)	494.4	1.4			G3/500
BL (0°-30°)	1919.6	5.3	B3/2500		
BM (30°-60°)	2300.5	6.3	B2/2500		
BH (60°-80°)	1885.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	98.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8
2.5°	9898.2	9908.8	9938.0	9980.4	10022.9	10044.1	10097.2	10081.3	10070.7	10049.5	10022.9
5°	9460.2	9481.4	9508.0	9590.3	9683.2	9757.5	9876.9	9890.2	9895.5	9906.1	9863.7
7.5°	8902.8	8908.1	8971.8	9080.6	9202.7	9330.1	9529.2	9584.9	9632.7	9685.8	9651.3
10°	8287.0	8300.2	8348.0	8504.6	8714.3	8902.8	9170.9	9263.8	9364.6	9481.4	9433.6
12.5°	7782.6	7785.3	7862.3	8029.5	8257.8	8512.6	8847.0	8958.5	9091.2	9274.4	9231.9
15°	7381.8	7381.8	7453.5	7596.8	7859.6	8159.5	8557.7	8701.0	8881.5	9128.4	9054.1
17.5°	7063.3	7065.9	7111.1	7262.4	7496.0	7827.7	8300.2	8494.0	8693.1	9019.6	8908.1
20°	6896.1	6882.8	6890.8	6983.7	7182.7	7503.9	8042.8	8268.4	8536.5	8945.2	8775.4
22.5°	6888.1	6864.2	6829.7	6837.7	6954.5	7219.9	7766.7	8040.1	8377.2	8884.2	8640.0
25°	7023.5	6996.9	6935.9	6866.9	6856.2	7015.5	7506.6	7817.1	8212.6	8857.6	8509.9
27.5°	7251.7	7233.2	7153.5	7050.0	6941.2	6935.9	7310.1	7634.0	8093.2	8884.2	8417.0
30°	7554.3	7522.5	7472.1	7339.3	7174.8	7004.9	7233.2	7535.8	8013.6	8969.1	8377.2
32.5°	7896.8	7878.2	7830.4	7697.7	7522.5	7251.7	7294.2	7557.0	8013.6	9117.8	8385.2
35°	8260.4	8257.8	8257.8	8170.2	7976.4	7639.3	7535.8	7737.5	8135.7	9356.7	8470.1
37.5°	8613.4	8610.8	8695.7	8727.6	8507.3	8143.6	7947.2	8098.5	8403.7	9709.7	8679.8
40°	8900.1	8910.7	9096.5	9255.8	9133.7	8796.6	8520.5	8597.5	8839.1	10211.4	9046.1
42.5°	9189.4	9218.6	9497.3	9778.7	9826.5	9534.5	9255.8	9300.9	9462.8	10875.0	9592.9
45°	9505.3	9518.6	9908.8	10301.6	10532.6	10360.0	10131.7	10192.8	10230.0	11695.2	10407.8
47.5°	9810.6	9845.1	10349.4	10888.2	11326.2	11310.3	11182.9	11164.3	11172.3	12693.2	11371.3
50°	10227.3	10277.7	10869.7	11520.0	12162.3	12457.0	12494.1	12353.5	12295.1	13802.7	12571.1
52.5°	11018.3	11018.3	11549.2	12188.9	13051.6	13781.5	14031.0	13800.1	13614.3	14976.0	13845.2
55°	12008.4	12050.9	12472.9	12990.5	14084.1	15175.1	16019.1	15764.3	15238.8	16252.7	15180.4
57.5°	12449.0	12502.1	13171.0	13975.3	15435.2	16759.7	17930.3	17840.0	17072.9	17579.9	16565.9
60°	11652.7	11764.2	12685.3	14033.7	16658.8	19315.9	20141.4	19878.6	18782.3	18973.5	18068.3
62.5°	9720.3	9842.4	10864.4	12746.3	16489.0	22079.1	23626.6	22657.7	20916.5	20733.3	20069.7
65°	5799.8	5794.5	7023.5	9518.6	14394.7	22846.2	29142.4	27334.7	24213.2	23148.8	22129.5
67.5°	3686.9	3679.0	3936.4	5043.3	9579.6	20966.9	32688.6	33158.4	28691.1	24924.6	22299.4
70°	2909.2	2906.5	3092.3	3596.7	4738.1	14920.2	31701.2	34952.8	31395.9	24247.7	19634.4
72.5°	2120.8	2126.2	2412.8	3012.7	3655.1	7490.6	25670.4	29906.8	28876.9	21404.9	15939.5
75°	1523.6	1531.6	1704.1	2306.7	3371.1	4095.7	17070.3	22487.9	21970.3	17157.9	10965.2
77.5°	968.8	979.5	1130.8	1616.5	2723.4	3307.3	10349.4	15875.8	14617.6	9667.2	3899.3
80°	591.9	626.4	753.8	1205.1	2176.6	2481.8	5173.4	8363.9	7320.8	2651.7	1311.3
82.5°	305.3	331.8	453.9	745.9	1499.7	2179.2	2927.8	3514.4	2266.8	1109.5	698.1
85°	95.6	111.5	159.3	302.6	714.0	1351.1	1937.7	1746.6	1040.5	522.9	323.8
87.5°	23.9	23.9	26.5	26.5	29.2	61.1	374.3	395.5	276.1	164.6	132.7
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°	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8	10038.8
2.5°	9969.8	9906.1	9879.6	9876.9	9810.6	9715.0	9651.3	9606.2	9579.6	9574.3	9574.3
5°	9792.0	9709.7	9600.9	9518.6	9340.7	9160.2	9008.9	8924.0	8825.8	8812.5	8809.9
7.5°	9555.7	9436.3	9229.3	8998.3	8687.8	8387.8	8133.0	7960.5	7787.9	7756.1	7745.5
10°	9300.9	9139.0	8786.0	8379.9	7915.3	7466.8	7076.6	6771.3	6569.6	6426.2	6399.7
12.5°	9048.8	8833.8	8316.2	7711.0	7073.9	6460.7	5874.1	5375.1	5014.1	4804.4	4767.3
15°	8812.5	8512.6	7803.9	7031.4	6203.3	5364.5	4533.7	3886.0	3379.0	3198.5	3156.1
17.5°	8597.5	8223.2	7307.5	6328.0	5295.5	4199.2	3254.3	2678.3	2381.0	2290.7	2269.5
20°	8382.5	7926.0	6803.2	5587.5	4331.9	3103.0	2378.3	2107.6	1996.1	1961.6	1951.0
22.5°	8151.6	7599.5	6253.7	4857.5	3357.8	2322.6	1945.7	1826.2	1791.7	1794.4	1791.7
25°	7920.7	7267.7	5677.7	4063.8	2500.4	1884.6	1698.8	1653.7	1661.6	1685.5	1690.8
27.5°	7729.5	6973.0	5112.3	3193.2	1953.6	1621.8	1534.2	1531.6	1560.8	1592.6	1597.9
30°	7591.5	6710.3	4554.9	2455.3	1608.6	1441.3	1406.8	1422.7	1457.3	1481.1	1489.1
32.5°	7493.3	6484.6	3960.3	1929.7	1409.5	1313.9	1298.0	1313.9	1335.1	1359.0	1364.3
35°	7458.8	6320.1	3376.4	1574.0	1274.1	1221.0	1210.4	1218.4	1229.0	1242.2	1247.6
37.5°	7535.8	6237.8	2765.9	1369.7	1191.8	1160.0	1144.0	1138.7	1141.4	1146.7	1149.3
40°	7764.0	6274.9	2266.8	1250.2	1138.7	1109.5	1083.0	1072.4	1069.7	1075.0	1072.4
42.5°	8156.9	6431.5	1905.8	1181.2	1096.3	1053.8	1024.6	1014.0	1014.0	1027.2	1027.2
45°	8732.9	6739.5	1645.7	1130.8	1059.1	1006.0	974.2	968.8	979.5	1000.7	1003.4
47.5°	9577.0	7190.7	1489.1	1093.6	1024.6	963.5	931.7	929.0	950.3	984.8	987.4
50°	10577.7	7841.0	1404.2	1067.1	1000.7	929.0	897.2	899.8	923.7	960.9	968.8
52.5°	11782.8	8727.6	1409.5	1056.4	987.4	907.8	875.9	870.6	894.5	931.7	939.6
55°	13027.7	9805.3	1513.0	1059.1	968.8	897.2	854.7	836.1	857.4	883.9	886.6
57.5°	14397.3	11021.0	1770.5	1053.8	945.0	886.6	836.1	793.7	806.9	822.9	830.8
60°	15942.2	12451.7	2325.2	1064.4	934.3	862.7	799.0	743.2	740.6	751.2	753.8
62.5°	18007.3	14397.3	2949.0	1083.0	958.2	833.5	743.2	684.8	674.2	679.5	682.2
65°	19586.6	15326.4	2752.6	1067.1	1008.7	812.2	690.1	629.1	607.9	602.5	602.5
67.5°	18944.3	14097.4	1916.5	1024.6	1032.6	814.9	647.7	570.7	544.1	530.9	528.2
70°	16120.0	11451.0	1332.5	982.1	1006.0	809.6	602.5	522.9	488.4	469.8	467.2
72.5°	12735.7	8743.5	1077.7	897.2	913.1	730.0	536.2	469.8	440.6	416.7	416.7
75°	8196.7	5335.3	899.8	799.0	745.9	568.0	464.5	419.4	390.2	366.3	366.3
77.5°	2757.9	1980.2	698.1	676.9	557.4	427.4	390.2	361.0	337.1	315.9	313.2
80°	1120.1	939.6	512.3	512.3	390.2	326.5	305.3	292.0	276.1	249.5	249.5
82.5°	650.3	570.7	358.3	310.6	260.1	225.6	212.3	199.1	199.1	180.5	180.5
85°	313.2	315.9	215.0	191.1	148.6	130.1	124.8	116.8	114.1	103.5	100.9
87.5°	169.9	172.5	108.8	84.9	58.4	50.4	42.5	39.8	37.2	34.5	34.5
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)