

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: P637640

Luminaire Tested: GWS-SA4D-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22708.5 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 162.1
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

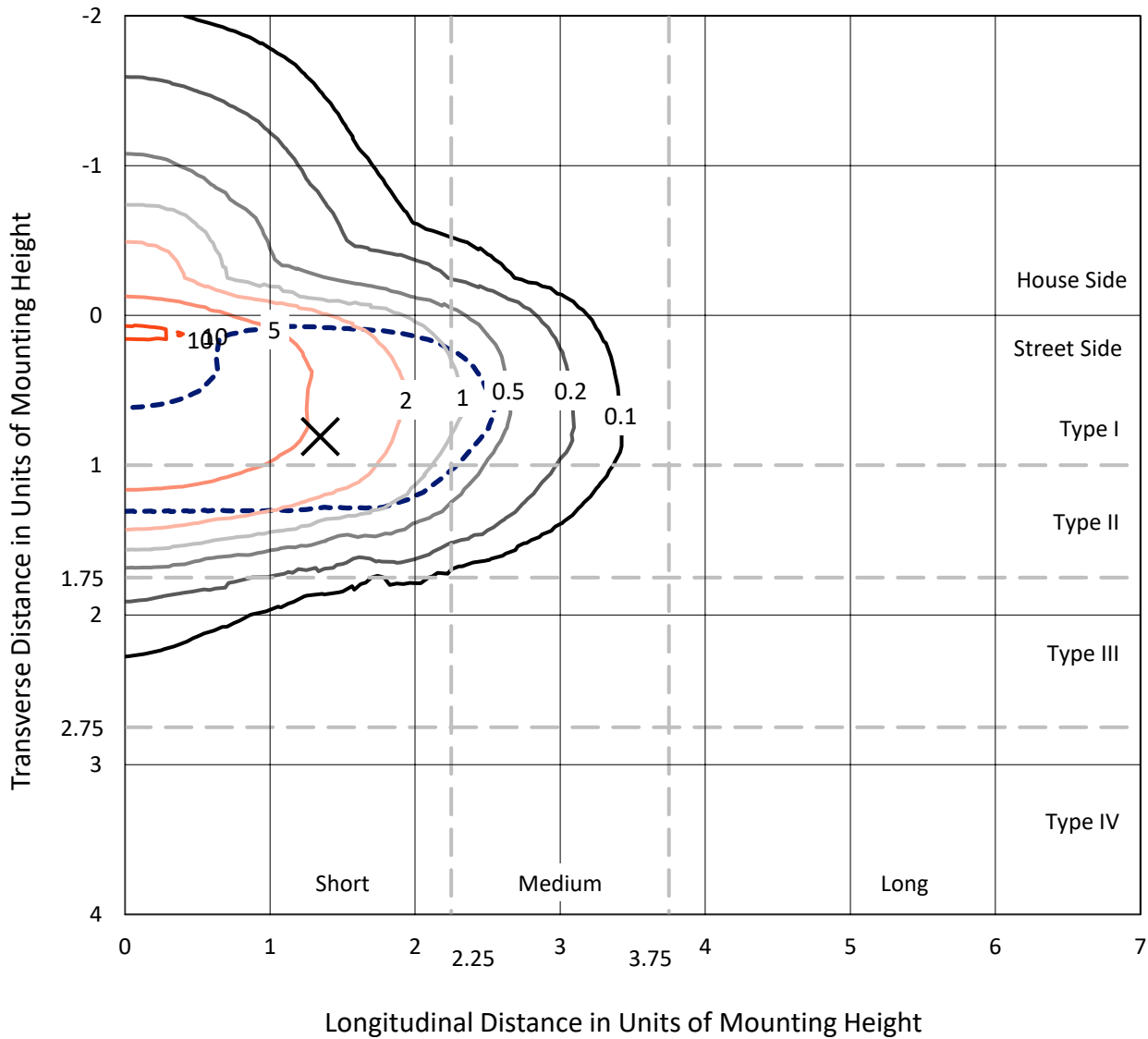


REPORT NUMBER: P637640

CATALOG NUMBER: GWS-SA4D-730-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

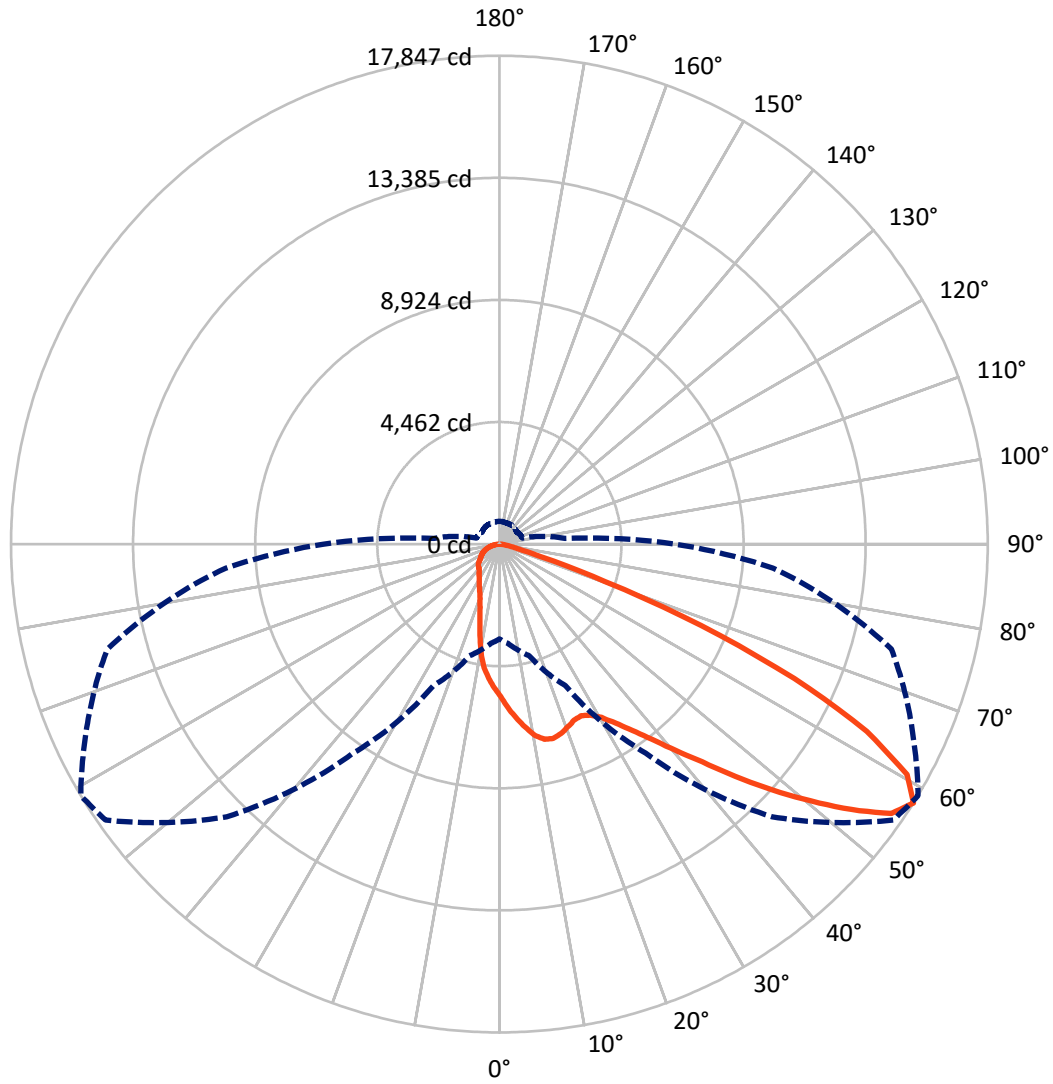
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

REPORT NUMBER: P637640
CATALOG NUMBER: GWS-SA4D-730-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637640

CATALOG NUMBER: GWS-SA4D-730-U-AFL-W

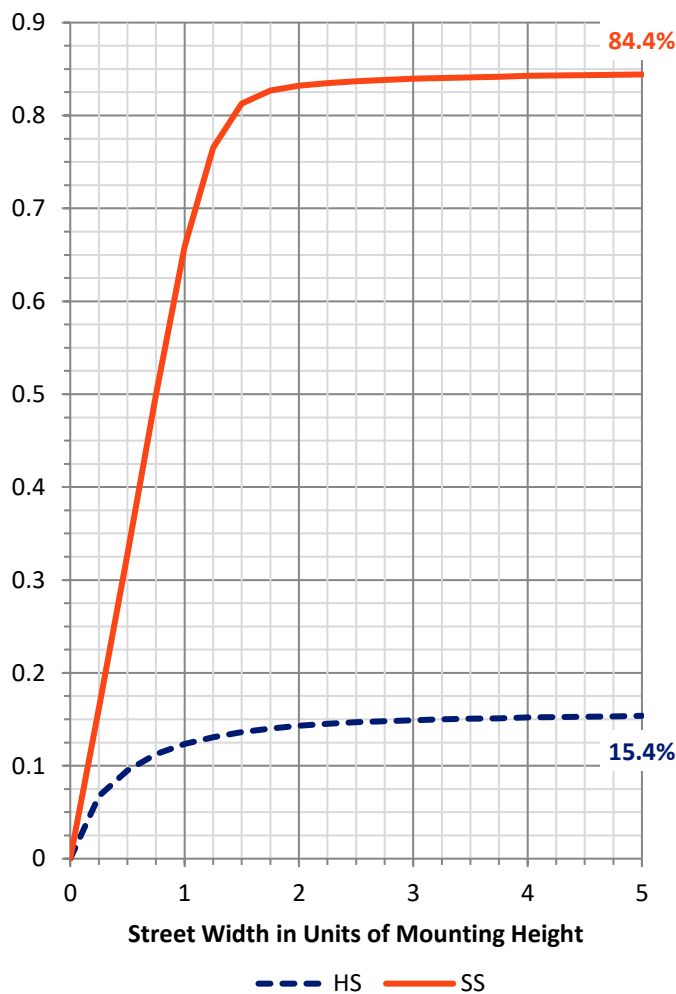
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3524.2	0.0	3524.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19184.3	0.0	19184.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	22708.5	0.0	22708.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.6	2.3
10°-20°	1311.6	5.8
20°-30°	2126.1	9.4
30°-40°	3420.1	15.1
40°-50°	5311.1	23.4
50°-60°	5720.8	25.2
60°-70°	3320.1	14.6
70°-80°	866.7	3.8
80°-90°	114.2	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°	22708.5	100.0
0°-180°	22708.5	100.0

Coefficient of Utilization



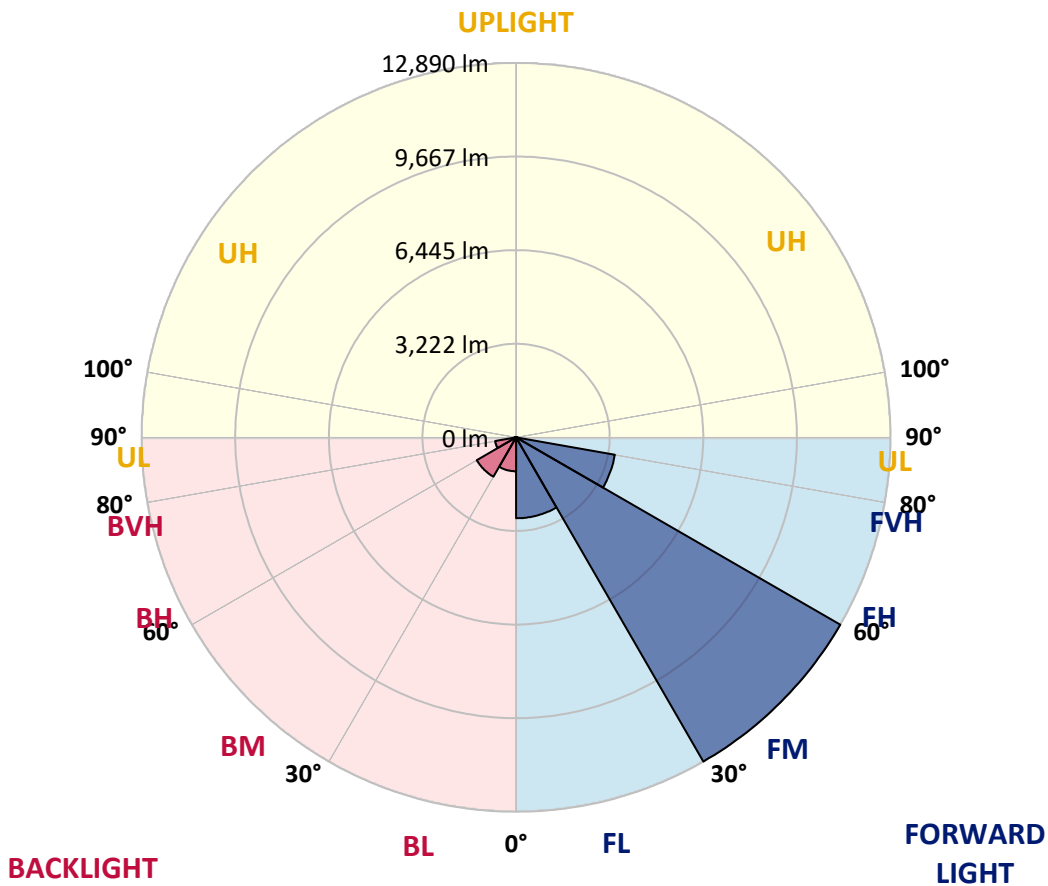
REPORT NUMBER: P637640

CATALOG NUMBER: GWS-SA4D-730-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2786.1	12.3			
FM (30°-60°)	12889.6	56.8			
FH (60°-80°)	3453.9	15.2			G2/5000
FVH (80°-90°)	54.7	0.2			G1/100
BL (0°-30°)	1169.2	5.1	B3/2500		
BM (30°-60°)	1562.5	6.9	B2/2500		
BH (60°-80°)	733.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	59.5	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-G2
 Type II Short





REPORT NUMBER: P637640
 CATALOG NUMBER: GWS-SA4D-730-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5
2.5°	6322.6	6269.9	6306.7	6241.1	6213.9	6142.0	6049.3	5986.9	5891.0	5766.3	5657.6
5°	6950.9	6914.1	6922.1	6851.8	6789.5	6669.6	6479.3	6373.8	6210.7	5959.8	5726.4
7.5°	6931.7	6974.9	6998.9	7059.6	7077.2	7066.0	6895.0	6747.9	6568.8	6191.6	5839.9
10°	6213.9	6295.5	6369.0	6576.8	6829.4	7149.2	7189.1	7101.2	6920.5	6487.3	5975.7
12.5°	5432.2	5494.6	5560.1	5809.5	6196.4	6835.8	7269.0	7323.4	7251.5	6779.9	6129.2
15°	5048.5	5077.3	5139.7	5304.3	5612.9	6322.6	7130.0	7368.2	7497.7	7090.0	6301.9
17.5°	5032.5	5045.3	5075.7	5163.6	5377.8	5926.2	6879.0	7278.6	7691.1	7417.7	6503.3
20°	5363.5	5329.9	5310.7	5309.1	5414.6	5793.5	6636.0	7134.8	7782.2	7753.4	6719.1
22.5°	5822.3	5833.5	5791.9	5689.6	5676.8	5887.8	6514.5	6989.3	7809.4	8050.8	6918.9
25°	6472.9	6528.9	6405.8	6210.7	6114.8	6161.2	6589.6	6944.5	7806.2	8298.6	7043.6
27.5°	7232.3	7275.4	7150.7	6895.0	6696.7	6584.8	6813.4	7077.2	7833.4	8512.8	7118.8
30°	8097.1	8111.5	7940.5	7671.9	7382.6	7142.8	7185.9	7350.6	7972.5	8794.2	7206.7
32.5°	9153.9	9214.6	8955.6	8530.4	8125.9	7819.0	7686.3	7791.8	8273.0	9126.7	7342.6
35°	10495.1	10515.9	10186.6	9577.5	9005.2	8579.9	8301.8	8357.7	8730.2	9591.9	7547.2
37.5°	11759.6	11780.4	11430.3	10864.4	10045.9	9464.0	9061.1	9035.6	9315.3	10248.9	7881.3
40°	12562.2	12621.3	12464.7	12109.8	11328.0	10543.1	9996.3	9908.4	10082.7	11053.0	8346.5
42.5°	12993.8	13019.4	13016.2	13062.5	12597.3	11817.2	11051.4	10875.6	10992.3	11921.1	8816.5
45°	12997.0	13060.9	13232.0	13678.0	13698.8	13212.8	12384.7	12109.8	12002.6	12795.6	9307.3
47.5°	12415.1	12483.8	12953.8	13831.5	14478.9	14589.3	13981.8	13430.2	12979.4	13548.5	9710.2
50°	10653.4	10826.0	11721.3	13273.6	14632.4	15692.3	15505.3	14757.1	13847.5	14130.4	9962.8
52.5°	9123.5	9117.1	9668.6	11697.3	13991.4	16178.3	16979.2	16122.4	14706.0	14499.7	10026.7
55°	6680.7	6717.5	7281.8	8946.0	12280.8	15708.3	17789.7	17378.9	15690.7	14696.4	10001.1
57.5°	3464.3	3646.5	4225.2	5708.8	9331.3	14090.5	17573.9	17847.3	16691.5	14835.4	10034.7
60°	1750.5	1715.3	1923.2	2725.7	5406.6	11005.1	16243.9	17115.1	16872.1	14944.2	10055.5
62.5°	1168.6	1159.0	1101.5	1262.9	2209.3	6517.7	13847.5	15068.8	15617.2	14688.4	9790.1
65°	1011.9	992.8	887.2	880.9	1072.7	2703.3	10149.8	11846.0	12907.5	13551.7	9155.5
67.5°	911.2	882.5	775.3	722.6	770.5	1187.8	5720.0	7945.3	9531.1	11460.7	7764.6
70°	813.7	799.3	692.2	615.5	610.7	724.2	2107.0	4100.5	5831.9	7819.0	5676.8
72.5°	729.0	703.4	612.3	538.7	502.0	513.2	914.4	1579.5	3018.2	4877.5	3395.5
75°	631.5	612.3	532.3	458.8	414.0	375.7	557.9	730.6	1376.4	2318.0	1603.4
77.5°	487.6	474.8	420.4	364.5	338.9	279.8	338.9	460.4	636.3	976.8	834.5
80°	283.0	291.0	313.3	284.6	249.4	199.8	220.6	265.4	382.1	529.2	473.2
82.5°	142.3	151.9	203.0	164.7	148.7	116.7	131.1	156.7	199.8	292.6	185.4
85°	11.2	11.2	36.8	41.6	51.2	41.6	52.8	63.9	91.1	116.7	62.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.0	14.4	27.2	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637640
 CATALOG NUMBER: GWS-SA4D-730-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5
2.5°	5584.1	5502.5	5405.0	5325.1	5202.0	5136.5	5053.3	4951.0	4909.4	4890.3	4879.1
5°	5595.3	5451.4	5243.6	5051.7	4839.1	4671.2	4484.2	4289.2	4177.3	4150.1	4130.9
7.5°	5636.8	5435.4	5104.5	4787.9	4393.1	4027.0	3670.5	3317.2	3136.5	3067.8	3061.4
10°	5694.4	5429.0	4963.8	4437.8	3771.2	3192.5	2775.3	2498.7	2382.0	2343.6	2330.8
12.5°	5766.3	5424.2	4778.4	3951.9	3053.4	2506.7	2268.5	2223.7	2239.7	2236.5	2236.5
15°	5857.4	5430.6	4554.5	3401.9	2469.9	2175.8	2180.6	2233.3	2282.9	2290.9	2290.9
17.5°	5956.6	5424.2	4230.0	2850.4	2119.8	2097.4	2171.0	2244.5	2289.3	2295.7	2295.7
20°	6063.7	5393.8	3820.8	2330.8	1966.3	2047.9	2127.8	2185.4	2212.5	2218.9	2218.9
22.5°	6127.6	5307.5	3376.3	1972.7	1868.8	1969.5	2022.3	2081.4	2084.6	2033.5	2031.9
25°	6118.0	5146.0	2869.6	1742.5	1764.9	1852.8	1920.0	1878.4	1827.3	1798.5	1793.7
27.5°	6057.3	4903.1	2353.2	1568.3	1641.8	1740.9	1720.1	1685.0	1672.2	1640.2	1637.0
30°	5980.5	4604.1	1889.6	1432.4	1513.9	1605.0	1573.1	1569.9	1557.1	1521.9	1521.9
32.5°	5907.0	4295.6	1539.5	1331.7	1432.4	1438.8	1483.5	1486.7	1480.3	1419.6	1413.2
35°	5886.2	3987.0	1302.9	1251.7	1352.5	1349.3	1413.2	1411.6	1301.3	1216.6	1215.0
37.5°	5948.6	3673.7	1162.2	1186.2	1242.1	1283.7	1334.9	1242.1	1205.4	1154.2	1151.0
40°	6081.3	3384.3	1090.3	1147.8	1171.8	1232.6	1152.6	1159.0	1149.4	1111.1	1106.3
42.5°	6257.1	3138.1	1050.3	1135.0	1131.8	1147.8	1059.9	1085.5	1099.9	1071.1	1066.3
45°	6426.6	2923.9	1029.5	1087.1	1103.1	1010.3	992.8	1016.7	1039.1	1027.9	1023.1
47.5°	6551.3	2738.5	1018.3	1021.5	1066.3	964.0	935.2	946.4	973.6	978.4	976.8
50°	6589.6	2580.2	1005.5	967.2	957.6	917.6	895.2	892.0	924.0	946.4	949.6
52.5°	6516.1	2439.5	972.0	919.2	872.9	879.3	871.3	855.3	887.2	917.6	920.8
55°	6407.4	2359.6	919.2	872.9	818.5	844.1	847.3	832.9	853.7	874.5	874.5
57.5°	6415.4	2406.0	868.1	829.7	770.5	804.1	821.7	815.3	815.3	831.3	832.9
60°	6468.1	2473.1	834.5	775.3	722.6	757.8	797.7	791.3	776.9	797.7	797.7
62.5°	6316.3	2383.6	812.1	722.6	671.4	713.0	761.0	757.8	741.8	775.3	778.5
65°	5868.6	2143.8	786.5	657.0	620.3	668.2	709.8	721.0	706.6	751.4	759.4
67.5°	4919.0	1803.3	737.0	594.7	569.1	613.9	653.8	669.8	658.6	711.4	717.8
70°	3667.3	1459.6	658.6	526.0	506.8	546.7	583.5	589.9	591.5	653.8	660.2
72.5°	2338.8	1135.0	554.7	449.2	434.8	465.2	492.4	518.0	529.2	588.3	586.7
75°	1304.5	844.1	446.0	380.5	354.9	378.9	410.9	441.2	473.2	559.5	569.1
77.5°	751.4	593.1	353.3	305.3	275.0	300.5	327.7	370.9	466.8	541.9	532.3
80°	423.6	385.3	267.0	223.8	204.6	223.8	244.6	326.1	367.7	399.7	404.5
82.5°	198.2	215.8	182.2	137.5	137.5	150.3	169.5	252.6	278.2	227.0	198.2
85°	71.9	97.5	89.5	70.3	62.3	60.7	105.5	143.9	89.5	79.9	68.7
87.5°	19.2	27.2	25.6	17.6	9.6	8.0	0.0	0.0	0.0	0.0	0.0
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)