

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: P638025

Luminaire Tested: GWS-SA4E-722-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638025  
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-SA4E-722-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22954.6 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

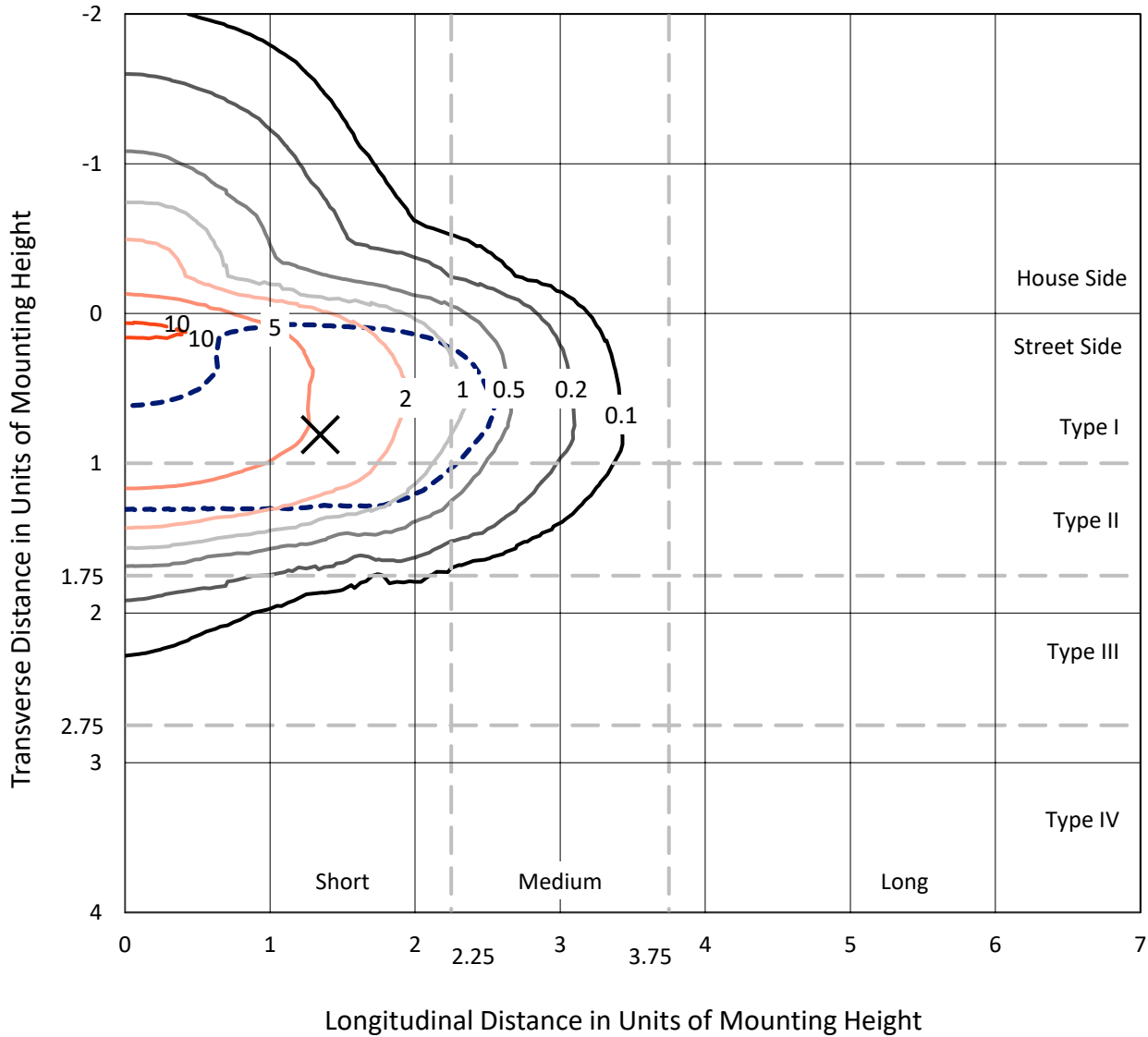
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P638025  
 CATALOG NUMBER: GWS-SA4E-722-U-AFL-W

### Iso-Footcandle Lines of Horizontal Illumination

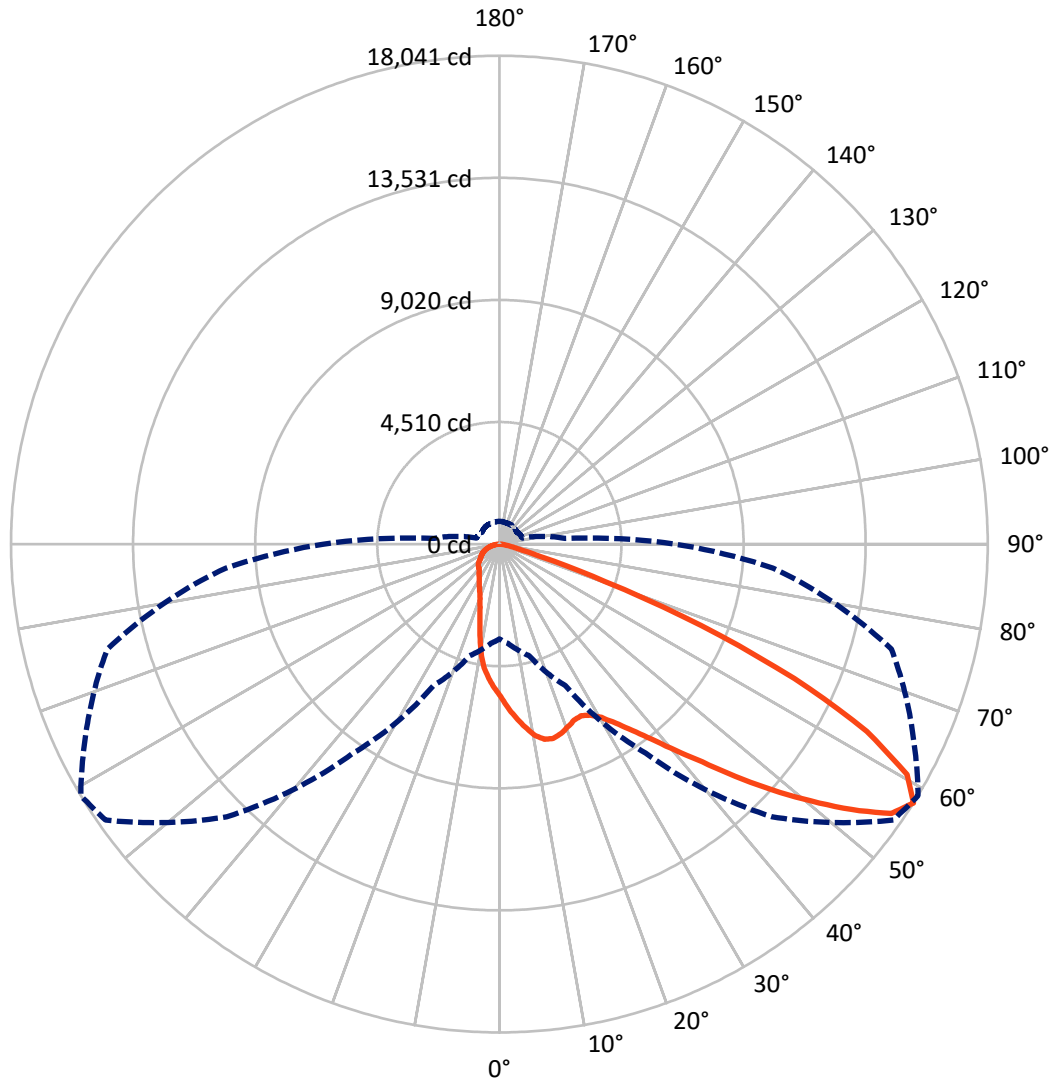
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

REPORT NUMBER: P638025  
CATALOG NUMBER: GWS-SA4E-722-U-AFL-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638025

CATALOG NUMBER: GWS-SA4E-722-U-AFL-W

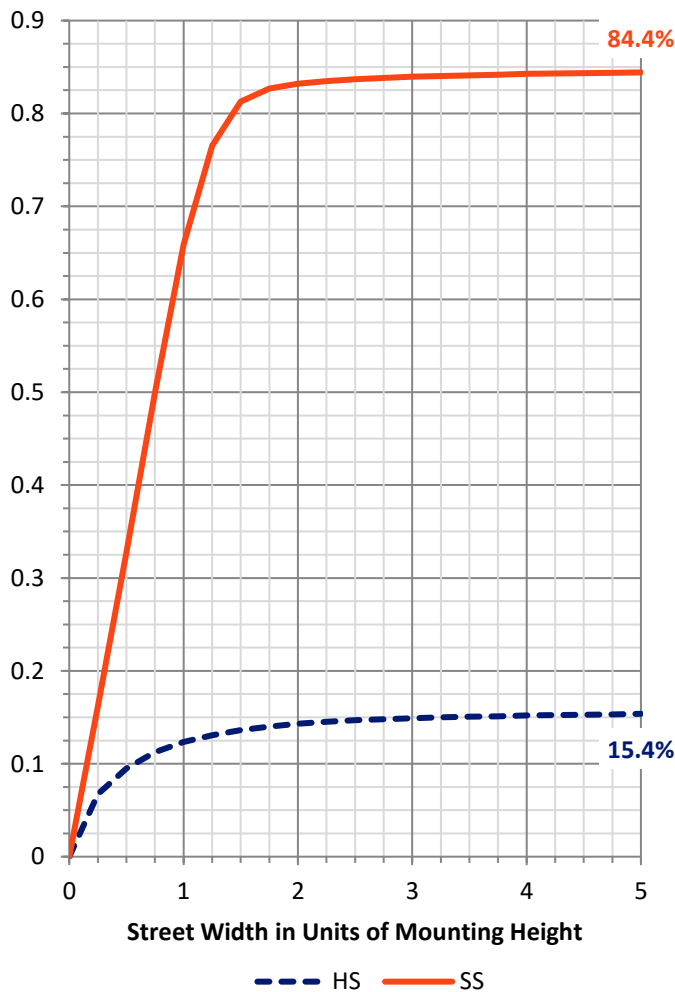
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3562.4	0.0	3562.4
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	19392.2	0.0	19392.2
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	22954.6	0.0	22954.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.2	2.3
10°-20°	1325.8	5.8
20°-30°	2149.2	9.4
30°-40°	3457.2	15.1
40°-50°	5368.7	23.4
50°-60°	5782.8	25.2
60°-70°	3356.1	14.6
70°-80°	876.1	3.8
80°-90°	115.4	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°	22954.6	100.0
0°-180°	22954.6	100.0

**Coefficient of Utilization**



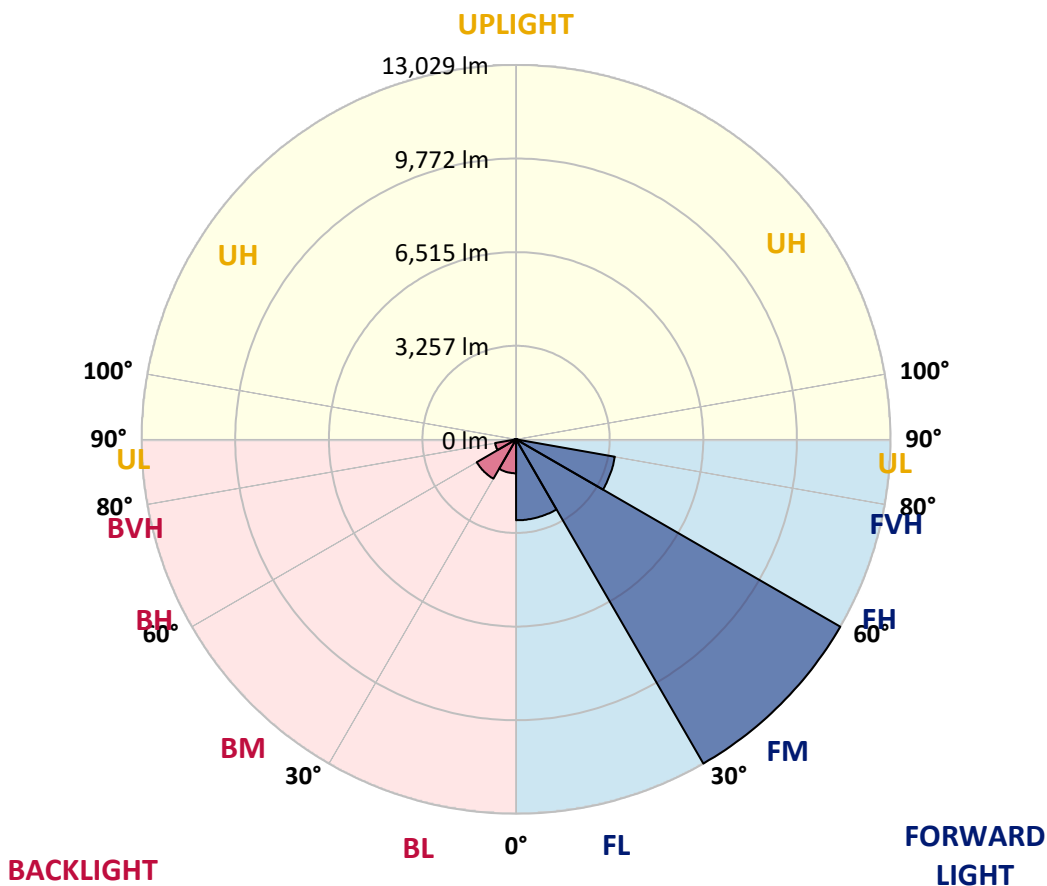
REPORT NUMBER: P638025

CATALOG NUMBER: GWS-SA4E-722-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2816.3	12.3			
FM (30°-60°)	13029.3	56.8			
FH (60°-80°)	3491.3	15.2			G2/5000
FVH (80°-90°)	55.3	0.2			G1/100
BL (0°-30°)	1181.9	5.1	B3/2500		
BM (30°-60°)	1579.4	6.9	B2/2500		
BH (60°-80°)	741.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	60.2	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: P638025  
 CATALOG NUMBER: GWS-SA4E-722-U-AFL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9
2.5°	6391.2	6337.8	6375.0	6308.8	6281.3	6208.6	6114.8	6051.8	5954.9	5828.8	5718.9
5°	7026.2	6989.1	6997.2	6926.1	6863.0	6741.8	6549.5	6442.9	6278.1	6024.3	5788.4
7.5°	7006.9	7050.5	7074.7	7136.1	7153.9	7142.6	6969.7	6821.0	6640.0	6258.7	5903.1
10°	6281.3	6363.7	6438.0	6648.1	6903.4	7226.6	7267.0	7178.1	6995.5	6557.6	6040.5
12.5°	5491.1	5554.1	5620.4	5872.4	6263.5	6909.9	7347.8	7402.8	7330.1	6853.3	6195.6
15°	5103.2	5132.3	5195.4	5361.8	5673.7	6391.2	7207.2	7448.0	7578.9	7166.8	6370.2
17.5°	5087.1	5100.0	5130.7	5219.6	5436.1	5990.4	6953.5	7357.5	7774.4	7498.1	6573.8
20°	5421.6	5387.7	5368.3	5366.6	5473.3	5856.3	6707.9	7212.1	7866.6	7837.5	6791.9
22.5°	5885.4	5896.7	5854.7	5751.2	5738.3	5951.6	6585.1	7065.0	7894.0	8138.0	6993.9
25°	6543.1	6599.6	6475.2	6278.1	6181.1	6228.0	6661.0	7019.8	7890.8	8388.5	7120.0
27.5°	7310.7	7354.3	7228.2	6969.7	6769.3	6656.2	6887.3	7153.9	7918.3	8605.1	7195.9
30°	8184.9	8199.4	8026.5	7755.1	7462.6	7220.2	7263.8	7430.2	8058.9	8889.5	7284.8
32.5°	9253.1	9314.5	9052.7	8622.8	8214.0	7903.7	7769.6	7876.2	8362.7	9225.6	7422.2
35°	10608.9	10629.9	10297.0	9681.3	9102.8	8672.9	8391.7	8448.3	8824.8	9695.8	7629.0
37.5°	11887.1	11908.1	11554.2	10982.1	10154.8	9566.6	9159.3	9133.5	9416.3	10360.0	7966.7
40°	12698.3	12758.1	12599.7	12241.0	11450.8	10657.3	10104.7	10015.8	10191.9	11172.8	8437.0
42.5°	13134.6	13160.5	13157.2	13204.1	12733.9	11945.3	11171.2	10993.5	11111.4	12050.3	8912.1
45°	13137.9	13202.5	13375.4	13826.3	13847.3	13356.0	12518.9	12241.0	12132.7	12934.2	9408.2
47.5°	12549.6	12619.1	13094.2	13981.4	14635.9	14747.4	14133.3	13575.8	13120.1	13695.4	9815.4
50°	10768.8	10943.4	11848.3	13417.4	14791.0	15862.4	15673.3	14917.0	13997.6	14283.6	10070.7
52.5°	9222.4	9215.9	9773.4	11824.1	14143.0	16353.6	17163.2	16297.1	14865.3	14656.9	10135.4
55°	6753.1	6790.3	7360.8	9043.0	12413.9	15878.5	17982.5	17567.2	15860.8	14855.6	10109.5
57.5°	3501.8	3686.0	4271.0	5770.6	9432.4	14243.2	17764.4	18040.7	16872.4	14996.2	10143.5
60°	1769.5	1733.9	1944.0	2755.2	5465.2	11124.4	16419.9	17300.6	17055.0	15106.1	10164.5
62.5°	1181.3	1171.6	1113.4	1276.6	2233.3	6588.3	13997.6	15232.2	15786.4	14847.6	9896.2
65°	1022.9	1003.5	896.9	890.4	1084.3	2732.6	10259.8	11974.4	13047.4	13698.6	9254.7
67.5°	921.1	892.0	783.7	730.4	778.9	1200.7	5781.9	8031.4	9634.4	11584.9	7848.8
70°	822.5	808.0	699.7	622.1	617.3	732.0	2129.9	4145.0	5895.1	7903.7	5738.3
72.5°	736.9	711.0	618.9	544.6	507.4	518.7	924.3	1596.6	3051.0	4930.3	3432.3
75°	638.3	618.9	538.1	463.8	418.5	379.8	564.0	738.5	1391.4	2343.2	1620.8
77.5°	492.9	479.9	425.0	368.4	342.6	282.8	342.6	465.4	643.2	987.4	843.5
80°	286.0	294.1	316.7	287.6	252.1	202.0	223.0	268.3	386.2	534.9	478.3
82.5°	143.8	153.5	205.2	166.4	150.3	118.0	132.5	158.4	202.0	295.7	187.5
85°	11.3	11.3	37.2	42.0	51.7	42.0	53.3	64.6	92.1	118.0	63.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.1	14.5	27.5	17.8
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: P638025  
 CATALOG NUMBER: GWS-SA4E-722-U-AFL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9	5634.9
2.5°	5644.6	5562.2	5463.6	5382.8	5258.4	5192.1	5108.1	5004.7	4962.7	4943.3	4931.9
5°	5655.9	5510.5	5300.4	5106.5	4891.5	4721.9	4532.8	4335.7	4222.5	4195.1	4175.7
7.5°	5697.9	5494.3	5159.8	4839.8	4440.7	4070.6	3710.3	3353.1	3170.5	3101.1	3094.6
10°	5756.1	5487.8	5017.6	4485.9	3812.1	3227.1	2805.3	2525.8	2407.8	2369.0	2356.1
12.5°	5828.8	5483.0	4830.1	3994.7	3086.5	2533.8	2293.1	2247.8	2264.0	2260.7	2260.7
15°	5920.9	5489.5	4603.9	3438.8	2496.7	2199.3	2204.2	2257.5	2307.6	2315.7	2315.7
17.5°	6021.1	5483.0	4275.9	2881.3	2142.8	2120.2	2194.5	2268.8	2314.1	2320.5	2320.5
20°	6129.4	5452.3	3862.2	2356.1	1987.6	2070.1	2150.9	2209.0	2236.5	2243.0	2243.0
22.5°	6194.0	5365.0	3412.9	1994.1	1889.1	1990.9	2044.2	2104.0	2107.2	2055.5	2053.9
25°	6184.3	5201.8	2900.7	1761.4	1784.0	1872.9	1940.8	1898.8	1847.1	1818.0	1813.1
27.5°	6122.9	4956.2	2378.7	1585.3	1659.6	1759.8	1738.8	1703.2	1690.3	1658.0	1654.8
30°	6045.4	4654.0	1910.1	1447.9	1530.3	1622.4	1590.1	1586.9	1574.0	1538.4	1538.4
32.5°	5971.0	4342.1	1556.2	1346.1	1447.9	1454.4	1499.6	1502.9	1496.4	1435.0	1428.5
35°	5950.0	4030.2	1317.0	1265.3	1367.1	1363.9	1428.5	1426.9	1315.4	1229.8	1228.1
37.5°	6013.0	3713.5	1174.8	1199.1	1255.6	1297.6	1349.3	1255.6	1218.4	1166.7	1163.5
40°	6147.2	3421.0	1102.1	1160.3	1184.5	1245.9	1165.1	1171.6	1161.9	1123.1	1118.3
42.5°	6324.9	3172.2	1061.7	1147.3	1144.1	1160.3	1071.4	1097.2	1111.8	1082.7	1077.9
45°	6496.2	2955.6	1040.7	1098.9	1115.0	1021.3	1003.5	1027.8	1050.4	1039.1	1034.2
47.5°	6622.3	2768.2	1029.4	1032.6	1077.9	974.4	945.3	956.7	984.1	989.0	987.4
50°	6661.0	2608.2	1016.4	977.7	968.0	927.6	904.9	901.7	934.0	956.7	959.9
52.5°	6586.7	2466.0	982.5	929.2	882.3	888.8	880.7	864.5	896.9	927.6	930.8
55°	6476.8	2385.2	929.2	882.3	827.4	853.2	856.5	841.9	862.9	883.9	883.9
57.5°	6484.9	2432.0	877.5	838.7	778.9	812.8	830.6	824.1	824.1	840.3	841.9
60°	6538.2	2499.9	843.5	783.7	730.4	766.0	806.4	799.9	785.4	806.4	806.4
62.5°	6384.7	2409.4	820.9	730.4	678.7	720.7	769.2	766.0	749.8	783.7	787.0
65°	5932.2	2167.0	795.1	664.2	627.0	675.5	717.5	728.8	714.3	759.5	767.6
67.5°	4972.3	1822.8	745.0	601.1	575.3	620.5	660.9	677.1	665.8	719.1	725.6
70°	3707.0	1475.4	665.8	531.7	512.3	552.7	589.8	596.3	597.9	660.9	667.4
72.5°	2364.2	1147.3	560.7	454.1	439.5	470.2	497.7	523.6	534.9	594.7	593.1
75°	1318.6	853.2	450.9	384.6	358.7	383.0	415.3	446.0	478.3	565.6	575.3
77.5°	759.5	599.5	357.1	308.7	277.9	303.8	331.3	374.9	471.9	547.8	538.1
80°	428.2	389.4	269.9	226.2	206.8	226.2	247.2	329.7	371.7	404.0	408.8
82.5°	200.4	218.2	184.2	139.0	139.0	151.9	171.3	255.3	281.2	229.5	200.4
85°	72.7	98.6	90.5	71.1	63.0	61.4	106.7	145.4	90.5	80.8	69.5
87.5°	19.4	27.5	25.9	17.8	9.7	8.1	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)