

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: P640472

Luminaire Tested: GWS-SA5D-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-830-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

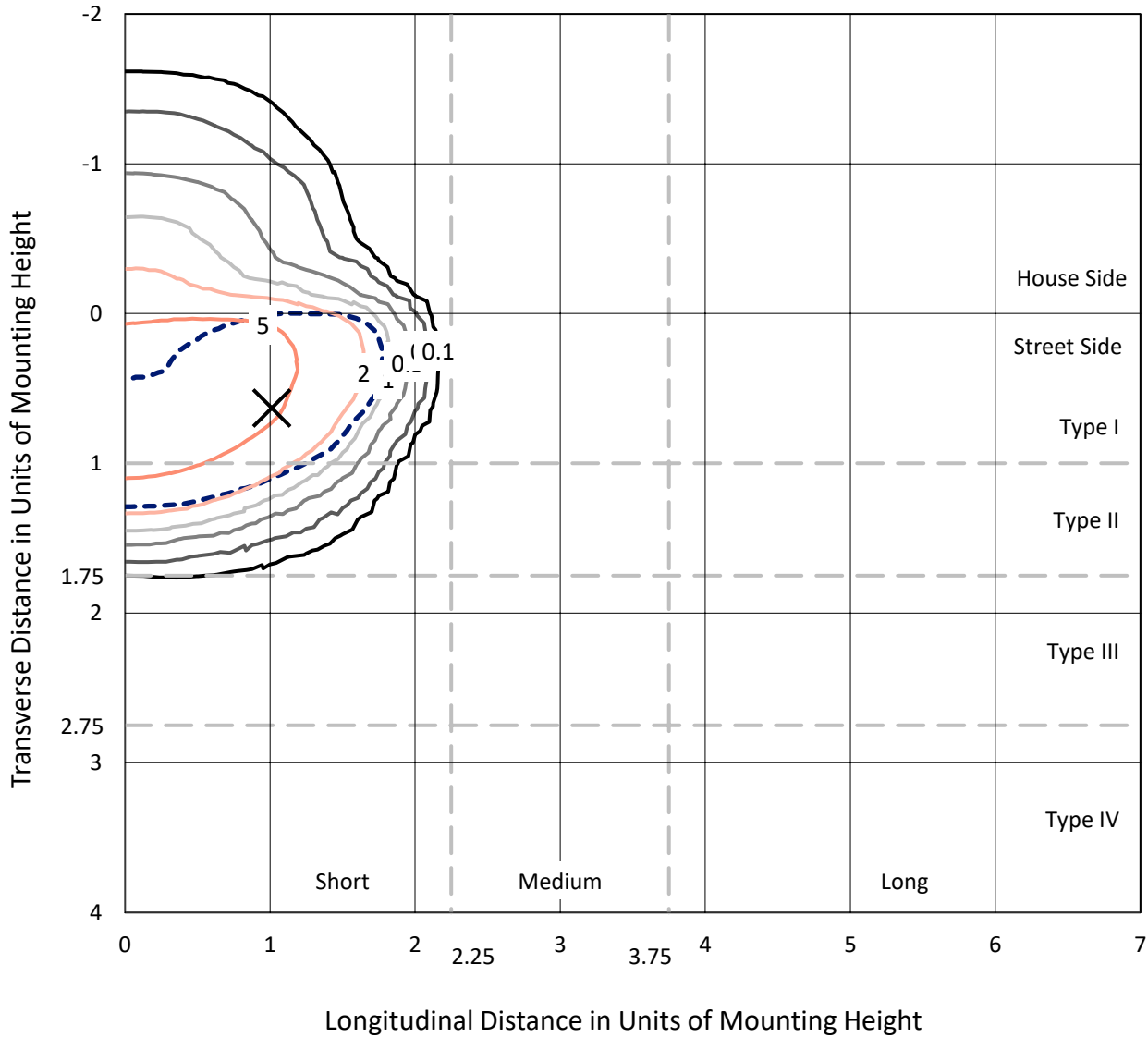
Lumens per Lamp: N/A  
Luminaire Lumens: 15997.3 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

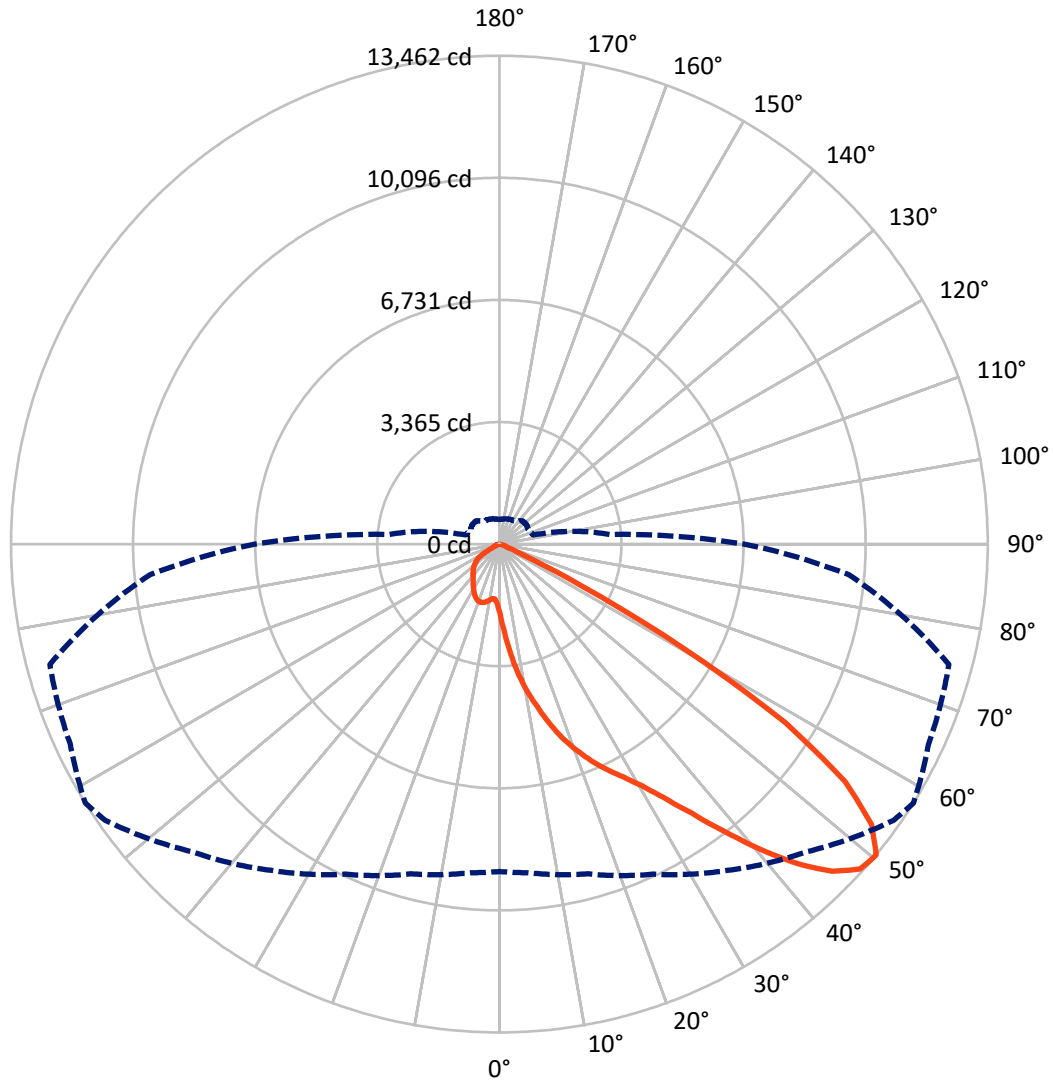
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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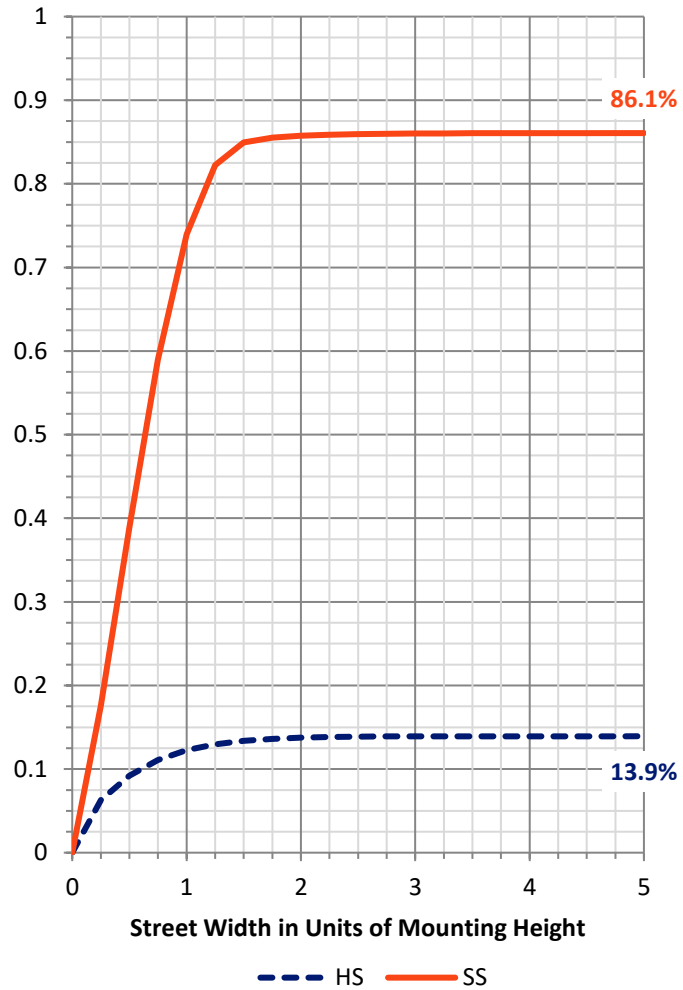
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2240.6	0.0	2240.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	13756.7	0.0	13756.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	15997.3	0.0	15997.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.7	1.5
10°-20°	937.1	5.9
20°-30°	1896.3	11.9
30°-40°	3354.8	21.0
40°-50°	4890.6	30.6
50°-60°	3919.9	24.5
60°-70°	706.2	4.4
70°-80°	55.7	0.3
80°-90°	0.0	0.0
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°	15997.3	100.0
0°-180°	15997.3	100.0

**Coefficient of Utilization**



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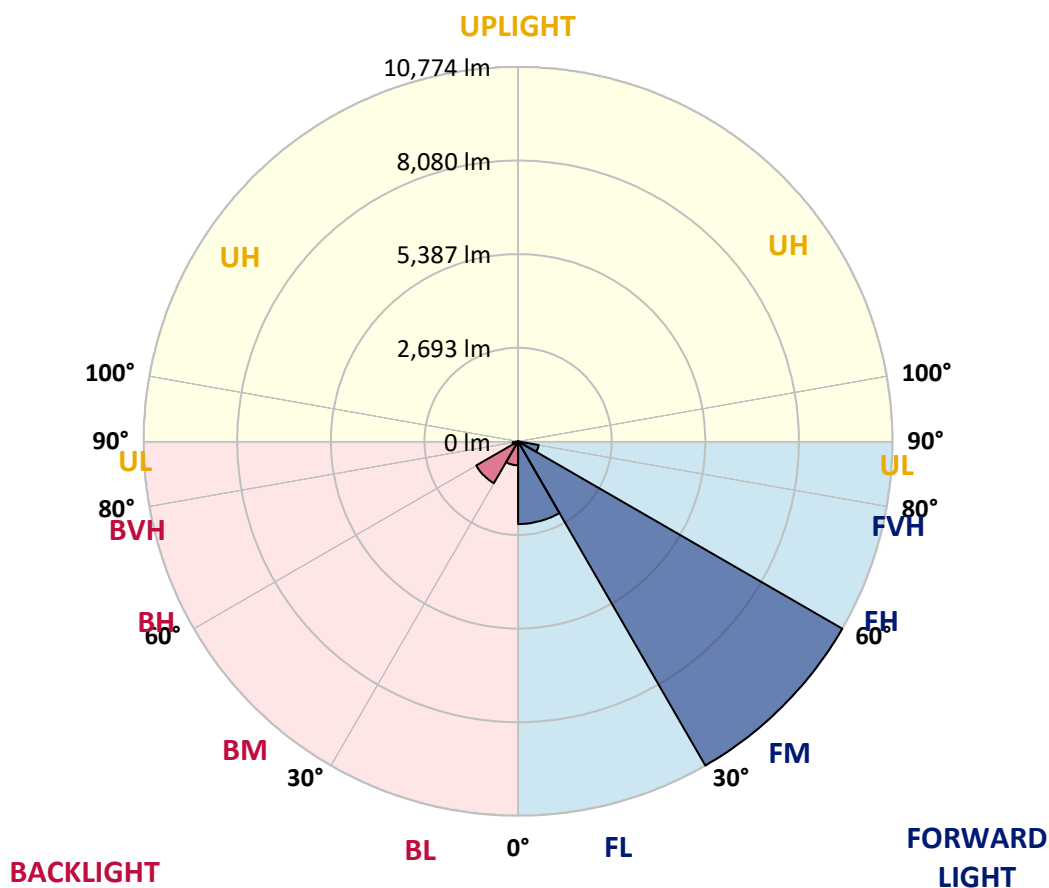
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.3	14.9			
FM (30°-60°)	10773.7	67.3			
FH (60°-80°)	602.6	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	689.8	4.3	B2/1000		
BM (30°-60°)	1391.5	8.7	B2/2500		
BH (60°-80°)	159.2	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	2827.8	2783.3	2757.6	2737.1	2646.5	2502.8	2408.7	2359.1	2276.9	2138.4	2018.6
5°	3690.0	3657.5	3597.6	3556.5	3440.2	3236.6	3026.2	2942.4	2755.9	2442.9	2162.3
7.5°	4261.3	4237.4	4215.2	4160.4	4050.9	3866.2	3633.5	3546.3	3258.9	2814.1	2353.9
10°	4701.0	4682.2	4656.5	4654.8	4569.3	4403.3	4175.8	4085.1	3773.8	3217.8	2579.7
12.5°	5087.6	5072.2	5067.1	5115.0	5060.2	4937.1	4690.7	4577.8	4247.7	3630.1	2829.5
15°	5352.8	5349.4	5371.6	5465.7	5496.5	5440.0	5233.0	5111.6	4731.8	4044.1	3104.9
17.5°	5474.2	5484.5	5527.3	5689.8	5826.6	5874.5	5715.4	5612.8	5212.5	4463.2	3399.2
20°	5681.2	5677.8	5703.5	5857.4	6025.1	6196.1	6148.2	6061.0	5698.3	4906.3	3725.9
22.5°	6264.6	6215.0	6160.2	6184.2	6244.0	6444.2	6533.2	6488.7	6199.6	5361.3	4062.9
25°	7161.0	7109.7	6933.5	6762.4	6649.5	6740.2	6861.6	6883.9	6697.4	5828.3	4415.3
27.5°	8112.1	8065.9	7867.5	7610.9	7287.6	7130.2	7220.9	7265.3	7186.6	6384.3	4790.0
30°	9003.4	8941.8	8724.6	8406.4	8031.7	7790.5	7687.9	7718.7	7764.9	7042.9	5229.6
32.5°	9776.6	9730.5	9470.4	9135.1	8774.2	8522.7	8283.2	8334.5	8447.4	7848.7	5792.4
35°	10431.8	10407.9	10132.5	9798.9	9417.4	9289.1	9083.8	9094.1	9207.0	8822.1	6478.4
37.5°	11001.5	10960.4	10710.7	10401.0	10098.3	10077.7	10021.3	10026.4	10084.6	9956.3	7267.0
40°	11360.7	11323.1	11145.2	10953.6	10738.1	10741.5	11034.0	11056.2	10989.5	11069.9	8100.2
42.5°	11495.9	11468.5	11372.7	11374.4	11352.2	11453.1	12002.3	12043.3	11803.8	11944.1	8811.8
45°	11261.5	11249.6	11256.4	11502.7	11769.6	12081.0	12794.3	12866.2	12527.4	12524.0	9367.8
47.5°	10505.4	10481.4	10681.6	11100.7	11718.3	12323.9	13273.3	13384.5	13033.8	12855.9	9716.8
50°	9023.9	9092.4	9408.8	10038.4	10977.6	11990.3	13268.2	13461.5	13052.6	12826.8	9658.6
52.5°	6536.6	6522.9	7215.7	8081.3	9224.1	10922.8	12563.4	12845.6	12595.9	12541.1	9528.6
55°	3556.5	3681.4	4148.4	5294.6	6721.3	8902.5	10953.6	11569.5	11858.6	12436.8	9763.0
57.5°	1307.0	1361.7	1654.2	2465.1	3558.3	5535.8	8367.0	9295.9	10188.9	12146.0	9723.6
60°	526.9	537.2	653.5	906.7	1495.2	2817.5	5019.2	5843.7	6685.4	9297.6	7462.1
62.5°	383.2	396.9	443.1	530.3	756.1	1231.7	2164.0	2516.4	2750.8	4605.2	3676.3
65°	309.6	319.9	357.5	396.9	499.5	662.0	698.0	672.3	668.9	1190.6	843.4
67.5°	256.6	266.9	294.2	321.6	359.2	330.2	239.5	251.5	205.3	203.6	165.9
70°	188.2	200.2	227.5	256.6	215.5	89.0	138.6	205.3	155.7	130.0	126.6
72.5°	142.0	150.5	176.2	167.6	63.3	34.2	92.4	148.8	119.7	95.8	94.1
75°	106.1	111.2	89.0	27.4	6.8	8.6	34.2	61.6	66.7	54.7	54.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.1	6.8	8.6	10.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1950.2	1878.3	1775.7	1690.2	1625.2	1561.9	1514.0	1466.1	1464.4	1440.4	1435.3
5°	2032.3	1902.3	1714.1	1579.0	1496.9	1447.3	1413.0	1395.9	1387.4	1378.8	1375.4
7.5°	2150.3	1963.9	1703.9	1560.2	1491.7	1459.2	1435.3	1425.0	1419.9	1413.0	1411.3
10°	2295.8	2052.8	1741.5	1596.1	1536.2	1505.4	1479.8	1464.4	1455.8	1443.8	1440.4
12.5°	2470.2	2162.3	1801.4	1656.0	1592.7	1551.6	1517.4	1495.2	1483.2	1467.8	1464.4
15°	2658.4	2280.4	1868.1	1710.7	1635.4	1582.4	1539.6	1505.4	1483.2	1464.4	1459.2
17.5°	2853.4	2400.1	1928.0	1748.3	1656.0	1592.7	1531.1	1484.9	1457.5	1433.6	1426.7
20°	3072.4	2523.3	1967.3	1755.2	1649.1	1565.3	1493.4	1435.3	1407.9	1375.4	1368.6
22.5°	3301.6	2637.9	1984.4	1739.8	1611.5	1514.0	1437.0	1377.1	1337.8	1303.6	1293.3
25°	3524.0	2740.5	1975.9	1697.0	1555.0	1442.1	1363.4	1301.8	1259.1	1224.9	1216.3
27.5°	3760.1	2826.1	1945.1	1633.7	1478.0	1363.4	1288.2	1235.1	1195.8	1158.1	1149.6
30°	4025.3	2904.8	1895.5	1556.7	1387.4	1283.0	1224.9	1188.9	1146.2	1106.8	1094.8
32.5°	4345.2	2974.9	1823.6	1464.4	1307.0	1212.9	1180.4	1153.0	1103.4	1062.3	1053.8
35°	4711.3	3033.1	1732.9	1368.6	1228.3	1168.4	1161.6	1125.6	1060.6	1012.7	1002.5
37.5°	5135.5	3089.5	1625.2	1274.5	1170.1	1147.9	1149.6	1088.0	1009.3	951.1	944.3
40°	5592.3	3146.0	1505.4	1192.4	1117.1	1135.9	1120.5	1033.3	905.0	848.5	841.7
42.5°	6067.8	3207.6	1384.0	1115.4	1072.6	1089.7	1067.5	923.8	831.4	802.3	798.9
45°	6497.2	3281.1	1252.2	1038.4	1028.1	1023.0	985.4	836.5	797.2	776.7	774.9
47.5°	6806.9	3269.1	1112.0	964.8	980.2	963.1	848.5	795.5	763.0	735.6	728.8
50°	6750.4	3060.4	966.5	882.7	918.6	903.2	763.0	747.6	718.5	689.4	679.1
52.5°	6606.7	2776.5	840.0	795.5	851.9	816.0	704.8	689.4	663.8	626.1	614.1
55°	6683.7	2509.6	740.7	725.3	783.5	675.7	639.8	615.9	588.5	547.4	542.3
57.5°	6435.6	2047.7	595.3	605.6	692.8	576.5	561.1	523.5	477.3	449.9	446.5
60°	4454.7	1100.0	372.9	384.9	501.2	484.1	502.9	468.7	412.3	386.6	381.5
62.5°	2046.0	441.4	203.6	195.0	263.4	328.5	431.1	427.7	357.5	316.5	313.1
65°	496.1	201.9	145.4	136.9	148.8	196.7	280.6	337.0	289.1	241.2	236.1
67.5°	160.8	164.2	133.4	124.9	131.7	147.1	167.6	186.5	184.8	169.4	165.9
70°	128.3	148.8	123.2	112.9	112.9	118.0	112.9	90.7	78.7	85.5	89.0
72.5°	95.8	112.9	97.5	87.2	83.8	82.1	70.1	51.3	35.9	32.5	30.8
75°	56.5	63.3	59.9	51.3	47.9	42.8	34.2	22.2	12.0	8.6	5.1
77.5°	10.3	12.0	13.7	10.3	8.6	6.8	5.1	1.7	0.0	0.0	0.0
80°	0.0	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)