

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: P637388

Luminaire Tested: GWS-SA4C-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11633.1 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

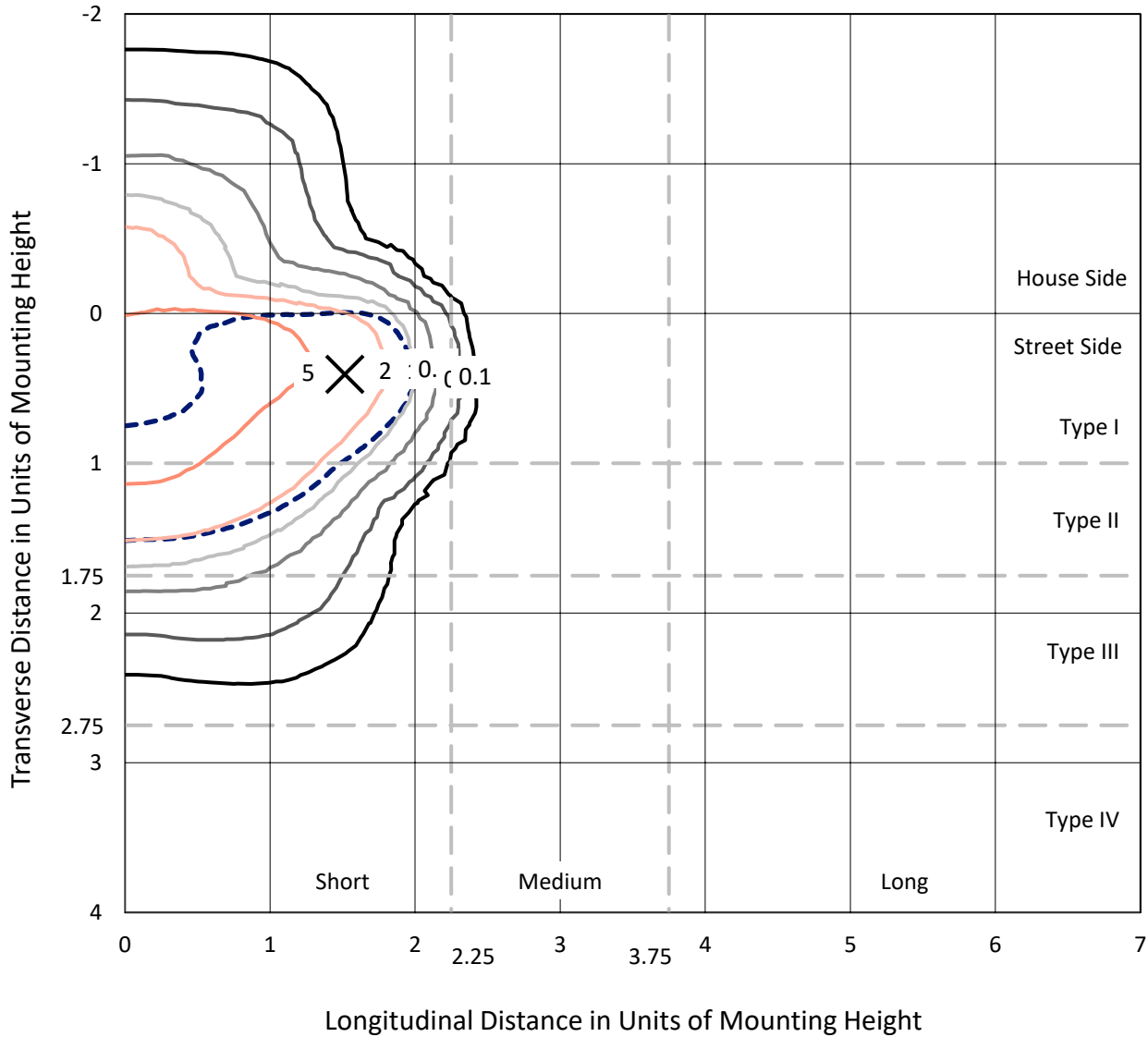
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

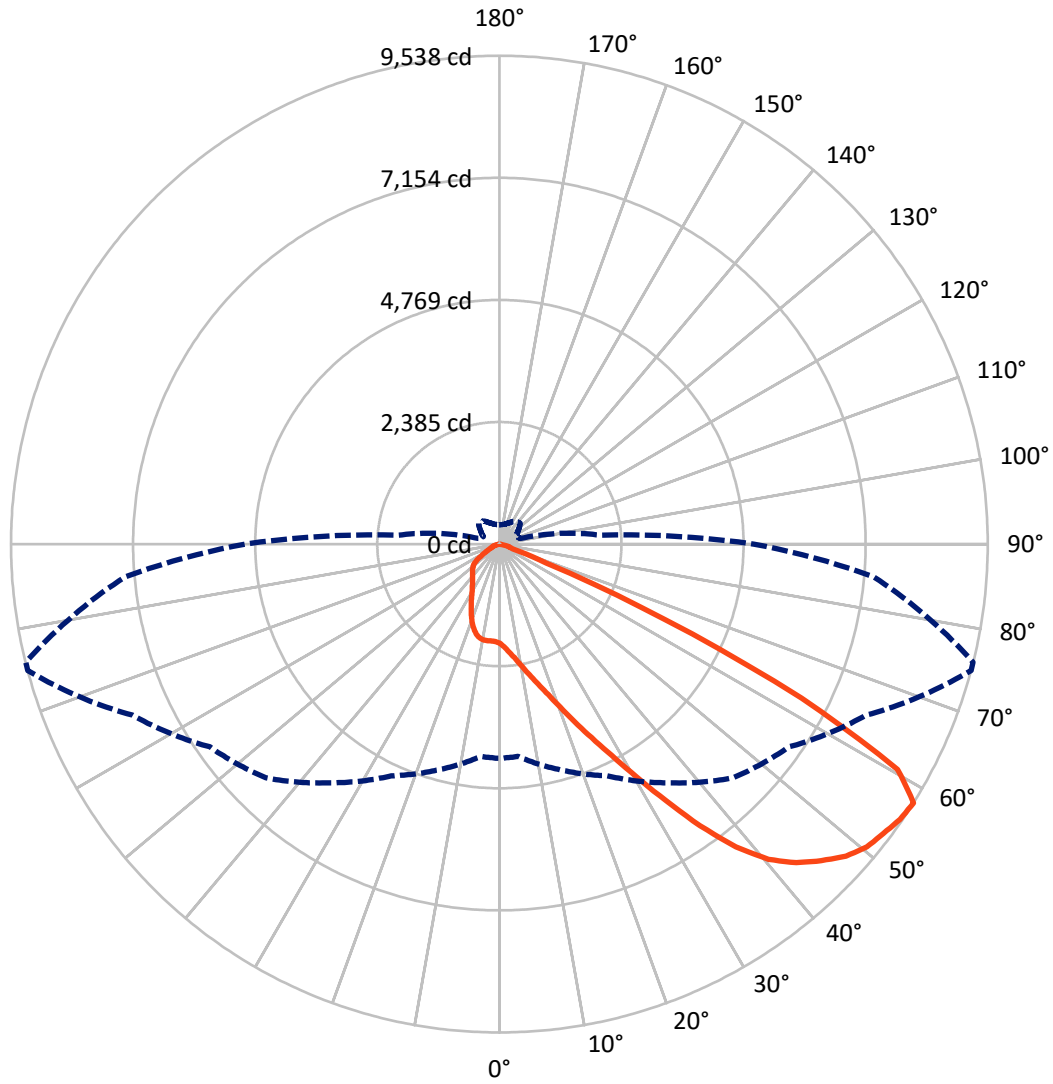
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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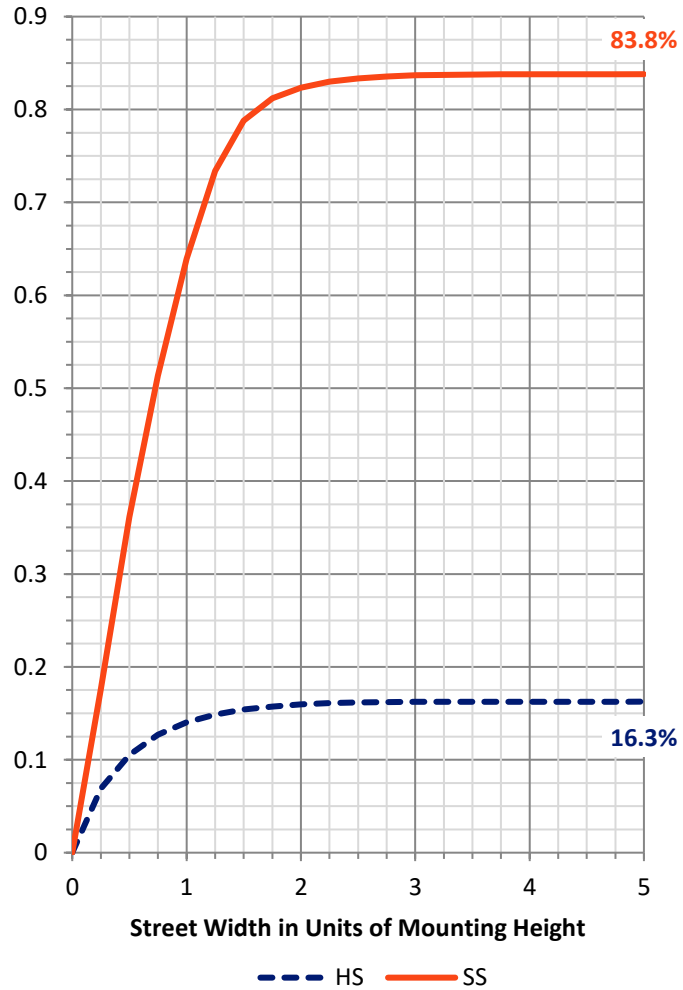
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1900.2	0.0	1900.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9732.9	0.0	9732.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	11633.1	0.0	11633.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	1.7
10°-20°	641.4	5.5
20°-30°	1174.5	10.1
30°-40°	1948.6	16.8
40°-50°	2975.9	25.6
50°-60°	3344.0	28.7
60°-70°	1233.4	10.6
70°-80°	117.9	1.0
80°-90°	0.1	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°	11633.1	100.0
0°-180°	11633.1	100.0

Coefficient of Utilization



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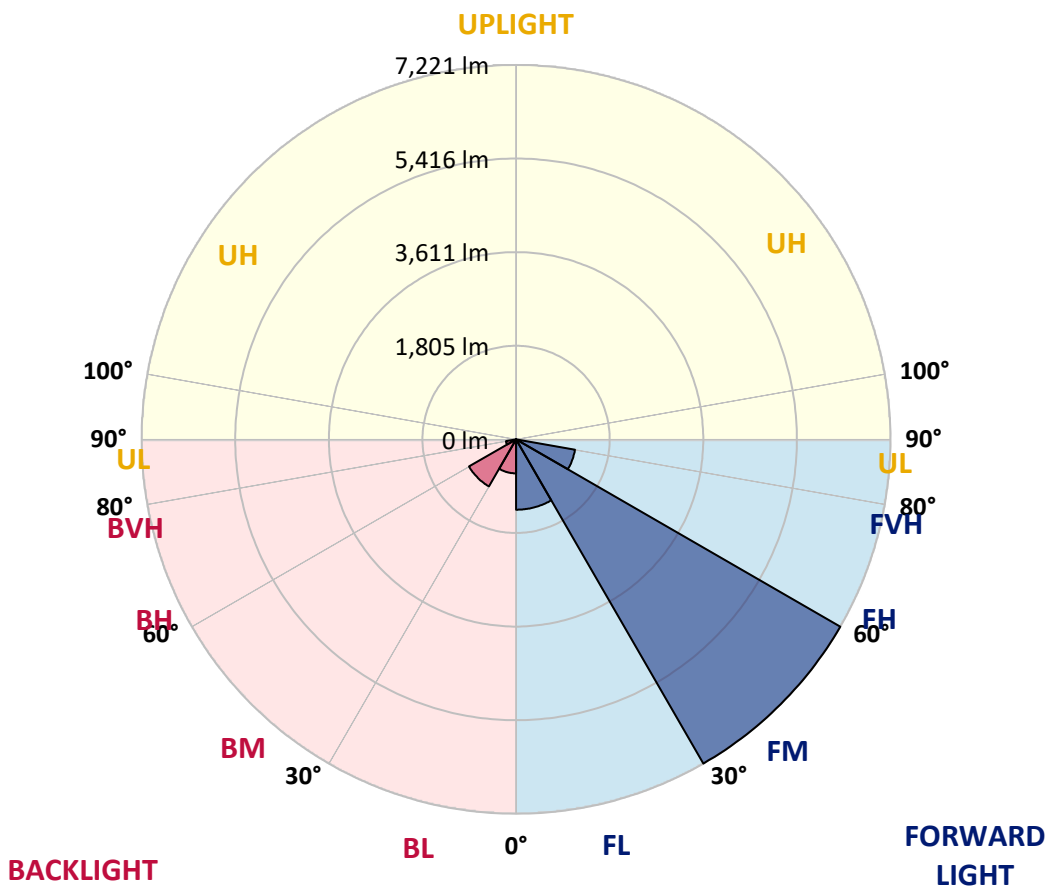
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.6	11.7			
FM (30°-60°)	7221.3	62.1			
FH (60°-80°)	1154.0	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	655.7	5.6	B2/1000		
BM (30°-60°)	1047.2	9.0	B2/2500		
BH (60°-80°)	197.3	1.7	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°	65°	75°	76°	85°
0°	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2
2.5°	2167.7	2190.1	2183.1	2169.1	2160.7	2131.2	2112.9	2059.6	2021.7	2017.5	1982.4
5°	2441.4	2437.2	2431.6	2414.8	2400.7	2354.4	2299.6	2209.8	2129.8	2119.9	2045.5
7.5°	2591.7	2594.5	2597.3	2594.5	2584.6	2549.5	2489.2	2383.9	2261.7	2253.3	2135.4
10°	2653.4	2659.1	2673.1	2699.8	2723.6	2720.8	2685.7	2577.6	2427.4	2413.4	2254.7
12.5°	2682.9	2689.9	2712.4	2762.9	2827.5	2878.1	2883.7	2786.8	2621.1	2598.7	2396.5
15°	2723.6	2730.7	2758.7	2824.7	2918.8	3018.5	3083.0	3021.3	2836.0	2812.1	2552.4
17.5°	2741.9	2751.7	2792.4	2879.5	3001.6	3154.6	3300.7	3295.0	3090.1	3071.8	2733.5
20°	2777.0	2784.0	2820.5	2914.6	3062.0	3282.4	3528.1	3616.5	3400.3	3373.7	2952.5
22.5°	2887.9	2890.7	2907.6	2966.5	3104.1	3375.1	3759.7	3991.4	3766.8	3731.7	3198.2
25°	3069.0	3067.6	3074.6	3084.4	3185.5	3469.1	3983.0	4414.0	4186.5	4148.6	3476.1
27.5°	3299.2	3299.2	3316.1	3288.0	3328.7	3585.7	4203.4	4899.7	4675.1	4621.8	3780.8
30°	3570.2	3568.8	3608.1	3563.2	3575.8	3769.6	4440.6	5429.0	5264.8	5198.8	4131.8
32.5°	3938.0	3929.6	3974.5	3912.8	3870.7	4047.5	4729.9	5982.2	5970.9	5869.9	4572.6
35°	4402.7	4388.7	4402.7	4342.4	4266.6	4436.4	5108.9	6533.9	6754.3	6647.6	5097.7
37.5°	4864.6	4909.6	4925.0	4821.1	4759.3	4929.2	5565.2	7028.1	7502.6	7391.7	5643.8
40°	5409.4	5395.3	5448.7	5332.1	5292.8	5481.0	6011.7	7395.9	8095.1	7989.8	6129.6
42.5°	5810.9	5836.2	5902.1	5837.6	5806.7	5983.6	6386.5	7610.7	8506.4	8402.6	6476.4
45°	6292.4	6310.7	6336.0	6282.6	6250.3	6424.4	6657.5	7704.8	8819.5	8707.2	6709.4
47.5°	6813.3	6827.3	6827.3	6717.8	6613.9	6685.5	6838.6	7758.1	9107.3	8999.2	6882.1
50°	7186.7	7193.8	7255.5	7178.3	6952.3	6841.4	6921.4	7810.1	9298.3	9197.2	6938.3
52.5°	6855.4	6847.0	7050.6	7210.6	7271.0	7050.6	7064.6	7885.9	9390.9	9303.9	6983.2
55°	5773.0	5758.9	6045.3	6434.2	6966.3	7248.5	7237.3	7930.8	9493.4	9440.1	7146.0
57.5°	4185.1	4161.3	4560.0	4992.4	5690.2	6455.3	6904.6	7905.6	9538.3	9534.1	7335.6
60°	2515.9	2496.2	2872.5	3327.3	3866.4	4635.8	5381.3	7081.5	8937.5	8945.9	6842.8
62.5°	1548.5	1566.8	1906.5	2138.2	2339.0	2570.6	3001.6	4763.6	6621.0	6675.7	4808.5
65°	1041.7	1055.8	1370.2	1662.3	1662.3	1359.0	1166.7	2277.2	3532.3	3439.6	2274.4
67.5°	699.2	714.6	963.1	1304.3	1353.4	947.7	473.1	679.5	984.2	954.7	563.0
70°	411.4	428.2	641.6	894.3	985.6	659.8	315.9	287.8	279.4	271.0	219.0
72.5°	183.9	190.9	327.1	454.9	415.6	278.0	223.2	230.2	217.6	213.4	178.3
75°	56.2	59.0	84.2	98.3	99.7	99.7	134.8	181.1	171.3	172.7	137.6
77.5°	14.0	14.0	22.5	21.1	11.2	9.8	25.3	40.7	42.1	37.9	28.1
80°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
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°	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2
2.5°	1966.9	1930.4	1906.5	1872.9	1849.0	1823.7	1801.2	1783.0	1773.2	1770.4	1771.8
5°	2011.8	1954.3	1898.1	1833.5	1788.6	1746.5	1712.8	1686.1	1673.5	1669.3	1669.3
7.5°	2080.6	2000.6	1900.9	1799.8	1724.0	1658.0	1618.7	1589.3	1578.0	1575.2	1566.8
10°	2170.5	2061.0	1896.7	1739.5	1632.8	1564.0	1535.9	1527.5	1531.7	1533.1	1531.7
12.5°	2278.6	2124.2	1870.0	1651.0	1535.9	1493.8	1496.6	1519.1	1544.3	1557.0	1559.8
15°	2393.7	2181.7	1809.7	1545.7	1453.1	1451.7	1492.4	1544.3	1593.5	1614.5	1620.1
17.5°	2522.9	2228.0	1717.0	1433.4	1381.5	1422.2	1495.2	1575.2	1641.2	1676.3	1683.3
20°	2664.7	2266.0	1599.1	1328.1	1318.3	1391.3	1492.4	1590.7	1672.1	1711.4	1718.4
22.5°	2812.1	2292.6	1462.9	1231.3	1260.7	1356.2	1465.7	1561.2	1638.4	1683.3	1688.9
25°	2980.6	2295.4	1323.9	1149.8	1207.4	1308.5	1401.1	1479.7	1544.3	1583.6	1587.9
27.5°	3128.0	2261.7	1200.4	1083.8	1158.2	1249.5	1311.3	1354.8	1399.7	1422.2	1423.6
30°	3297.8	2202.8	1083.8	1030.5	1107.7	1176.5	1207.4	1217.2	1221.4	1225.6	1220.0
32.5°	3500.0	2131.2	996.8	978.5	1050.1	1096.5	1104.9	1085.2	1061.4	1027.7	1019.3
35°	3748.5	2066.6	925.2	928.0	987.0	1015.0	1008.0	965.9	919.6	878.9	871.8
37.5°	4018.1	2011.8	870.4	878.9	918.2	937.8	916.8	870.4	849.4	814.3	815.7
40°	4256.7	1966.9	821.3	829.7	848.0	866.2	832.5	801.6	841.0	838.1	841.0
42.5°	4426.6	1929.0	779.2	775.0	787.6	800.2	775.0	759.5	825.5	807.3	817.1
45°	4526.3	1893.9	744.1	718.8	738.5	760.9	744.1	724.4	746.9	662.7	655.6
47.5°	4593.7	1874.3	713.2	664.1	699.2	738.5	703.4	655.6	623.3	550.3	544.7
50°	4600.7	1864.4	676.7	607.9	652.8	694.9	654.2	588.2	541.9	509.6	505.4
52.5°	4637.2	1884.1	626.2	536.3	585.4	652.8	624.8	558.8	495.6	467.5	461.9
55°	4800.1	1966.9	541.9	438.0	509.6	620.5	600.9	498.4	438.0	421.2	417.0
57.5°	4968.5	1983.8	426.8	346.8	443.6	574.2	548.9	459.1	400.1	380.5	376.3
60°	4543.1	1634.2	320.1	286.4	391.7	530.7	508.2	435.2	366.4	342.6	338.3
62.5°	2984.8	883.1	254.1	242.9	329.9	449.3	463.3	393.1	327.1	301.8	300.4
65°	1375.9	409.9	195.1	192.3	258.3	358.0	398.7	344.0	276.6	254.1	254.1
67.5°	374.9	203.6	153.0	141.8	175.5	240.1	290.6	256.9	196.6	169.9	168.5
70°	186.7	164.3	137.6	122.1	126.4	148.8	171.3	143.2	99.7	81.4	80.0
72.5°	153.0	134.8	116.5	103.9	95.5	91.3	88.4	71.6	46.3	35.1	33.7
75°	113.7	96.9	82.8	67.4	57.6	53.3	47.7	35.1	19.7	11.2	9.8
77.5°	25.3	23.9	22.5	16.8	15.4	12.6	9.8	7.0	2.8	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	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)