

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: P639727

Luminaire Tested: GWS-SA5C-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17934.3 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

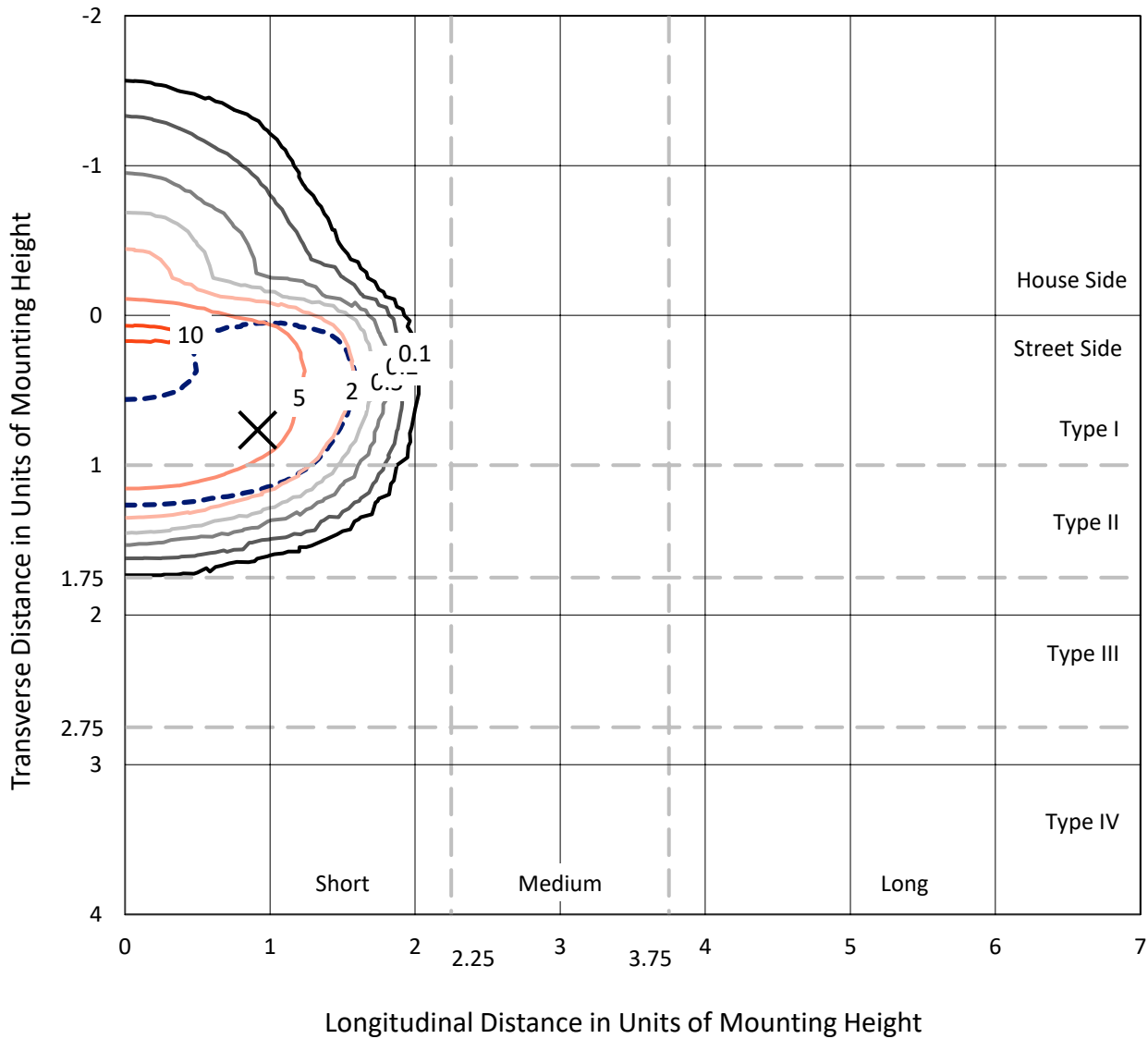
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

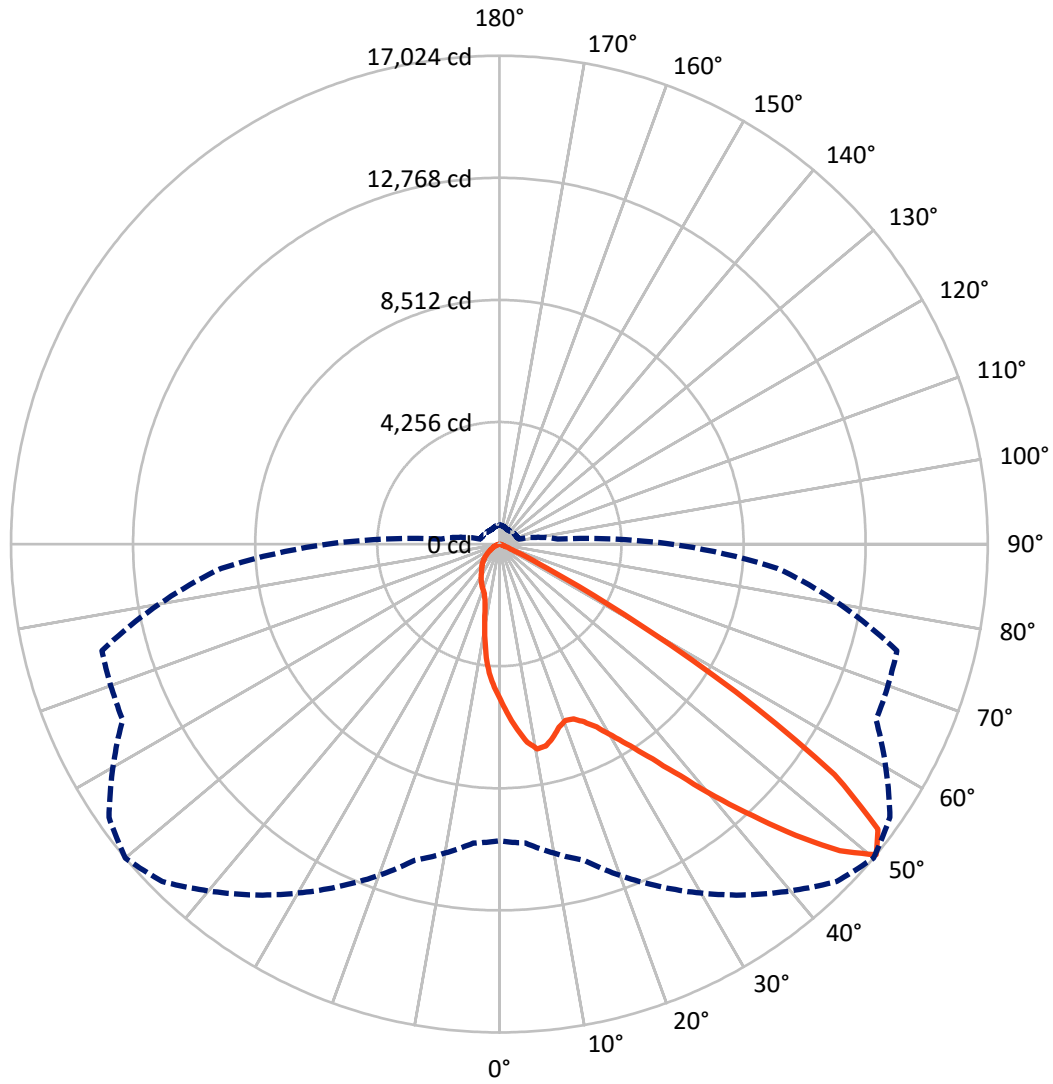
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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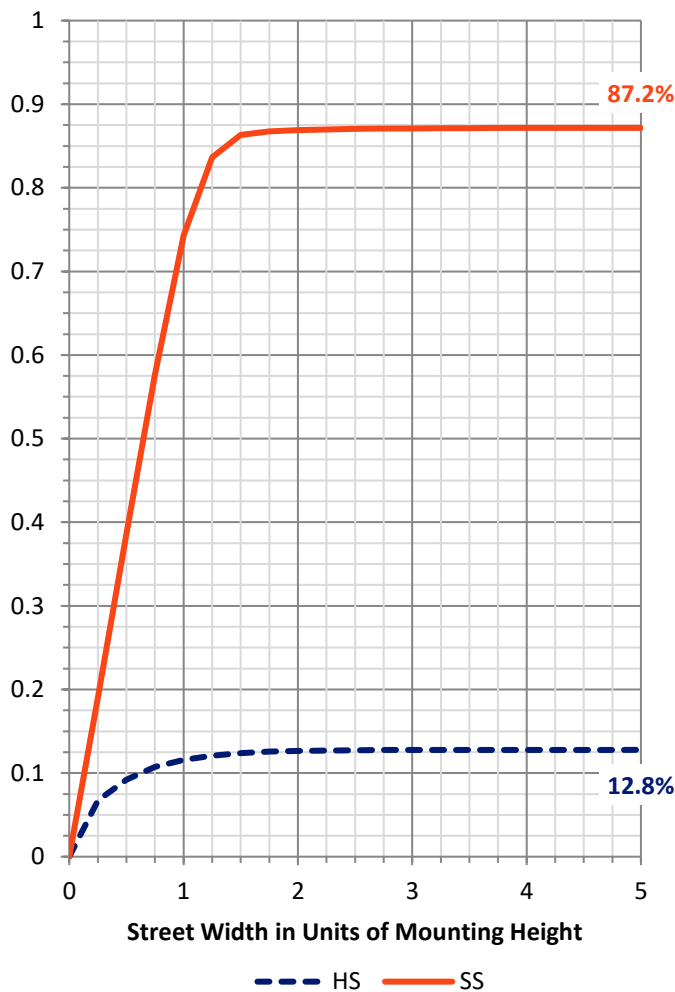
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2304.3	0.0	2304.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15630.0	0.0	15630.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	17934.3	0.0	17934.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	2.8
10°-20°	1300.4	7.3
20°-30°	2146.2	12.0
30°-40°	3541.7	19.7
40°-50°	5603.7	31.2
50°-60°	4242.7	23.7
60°-70°	531.0	3.0
70°-80°	60.1	0.3
80°-90°	4.6	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°	17934.3	100.0
0°-180°	17934.3	100.0

Coefficient of Utilization



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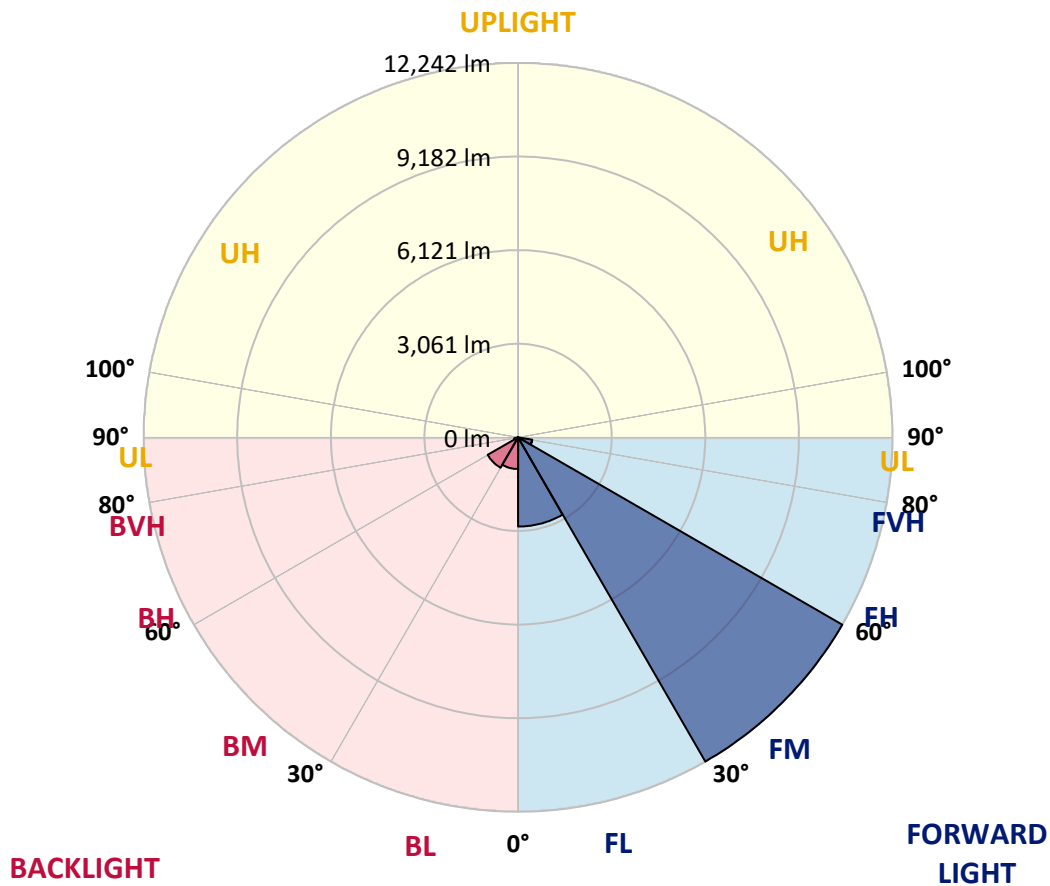
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.4	16.3			
FM (30°-60°)	12242.0	68.3			
FH (60°-80°)	469.5	2.6			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1034.3	5.8	B3/2500		
BM (30°-60°)	1146.0	6.4	B2/2500		
BH (60°-80°)	121.6	0.7	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4
2.5°	6191.3	6240.8	6227.1	6162.3	6092.3	6042.8	5966.0	5942.1	5768.0	5646.8	5518.7
5°	6939.0	6954.3	6937.2	6858.7	6735.8	6618.0	6491.7	6418.3	6126.4	5863.5	5595.5
7.5°	7118.2	7099.4	7131.8	7171.1	7154.0	7102.8	6969.7	6889.5	6541.2	6112.8	5706.5
10°	6558.3	6515.6	6636.8	6839.9	7053.3	7294.0	7259.9	7266.7	6945.8	6426.9	5851.6
12.5°	5815.7	5798.7	5889.1	6124.7	6542.9	7089.2	7220.6	7440.8	7316.2	6766.5	6017.2
15°	5489.7	5498.2	5552.9	5701.4	6001.8	6681.2	6997.0	7394.7	7647.4	7096.0	6199.8
17.5°	5539.2	5569.9	5568.2	5617.7	5800.4	6344.9	6713.6	7249.6	7903.4	7475.0	6409.8
20°	5875.5	5906.2	5860.1	5822.6	5884.0	6259.6	6565.1	7102.8	8075.8	7857.3	6631.7
22.5°	6379.1	6414.9	6305.7	6198.1	6158.9	6399.5	6621.5	7043.1	8207.3	8207.3	6829.7
25°	6988.5	7038.0	6869.0	6677.8	6568.5	6694.9	6862.1	7177.9	8342.1	8521.3	6964.6
27.5°	7669.5	7671.3	7526.2	7311.1	7106.2	7121.6	7222.3	7481.8	8490.6	8859.3	7070.4
30°	8436.0	8441.1	8248.2	7990.5	7732.7	7662.7	7748.1	7944.4	8799.6	9284.4	7217.2
32.5°	9426.1	9450.0	9173.4	8794.5	8459.9	8328.5	8378.0	8584.5	9291.2	9817.0	7437.4
35°	10764.3	10789.9	10382.0	9881.8	9349.2	9151.2	9200.7	9409.0	10003.0	10573.2	7789.0
37.5°	12085.6	12119.7	11706.6	11240.6	10510.0	10182.3	10233.5	10431.5	11071.6	11617.8	8352.3
40°	12998.8	13044.9	12916.9	12602.8	11925.1	11494.9	11556.4	11628.1	12247.7	12867.4	9082.9
42.5°	13480.2	13545.0	13599.7	13760.1	13403.4	13043.2	12939.1	12944.2	13444.3	14140.8	9842.6
45°	13509.2	13572.4	13852.3	14471.9	14743.4	14668.2	14478.8	14350.7	14357.6	14989.2	10317.1
47.5°	12570.3	12688.1	13212.2	14425.9	15446.6	16069.7	15974.1	15670.3	14741.6	15045.5	10265.9
50°	10346.1	10462.2	11414.7	13161.0	14934.5	16629.6	17023.9	16615.9	14490.7	14343.9	9738.4
52.5°	7514.2	7526.2	8144.1	10184.0	12858.8	15596.9	16525.5	16486.2	14108.4	13493.8	9018.1
55°	3569.3	3526.7	4221.4	5747.5	8893.5	12614.7	14180.0	14623.9	13565.5	12879.3	8459.9
57.5°	1039.6	1060.0	1369.0	2243.0	4448.4	8062.2	9711.1	10537.3	11134.8	10588.5	6561.7
60°	466.0	467.7	520.6	682.8	1481.7	3750.3	5020.3	6042.8	6657.3	6169.1	3255.2
62.5°	338.0	339.7	360.2	385.8	503.6	1270.0	1882.8	2509.3	2555.4	1672.9	824.5
65°	281.7	281.7	285.1	285.1	302.1	454.1	571.8	737.4	621.3	460.9	322.6
67.5°	227.0	228.7	232.2	232.2	227.0	227.0	245.8	269.7	288.5	356.8	297.0
70°	177.5	175.8	175.8	177.5	172.4	146.8	158.8	180.9	198.0	278.2	257.8
72.5°	138.3	140.0	138.3	131.4	119.5	87.1	93.9	117.8	126.3	174.1	174.1
75°	104.1	105.8	99.0	75.1	49.5	27.3	35.8	58.0	73.4	85.3	63.2
77.5°	13.7	13.7	10.2	10.2	8.5	10.2	10.2	13.7	20.5	20.5	15.4
80°	1.7	1.7	1.7	3.4	5.1	6.8	6.8	6.8	6.8	8.5	8.5
82.5°	1.7	1.7	1.7	1.7	5.1	5.1	6.8	6.8	6.8	6.8	6.8
85°	0.0	0.0	0.0	1.7	3.4	5.1	5.1	6.8	6.8	6.8	6.8
87.5°	0.0	0.0	0.0	1.7	3.4	5.1	5.1	5.1	6.8	6.8	6.8
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°	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4	5433.4
2.5°	5441.9	5342.9	5223.4	5141.5	5025.4	4948.6	4839.3	4765.9	4702.8	4653.3	4680.6
5°	5443.6	5286.6	5042.5	4834.2	4607.2	4398.9	4175.3	3999.5	3840.7	3769.1	3808.3
7.5°	5477.8	5252.4	4878.6	4508.2	4072.9	3642.7	3239.9	2912.1	2750.0	2673.2	2697.1
10°	5544.3	5237.1	4696.0	4081.4	3374.7	2787.5	2396.6	2174.7	2084.2	2036.5	2045.0
12.5°	5605.8	5226.8	4458.7	3519.8	2662.9	2162.8	1959.6	1928.9	1947.7	1949.4	1947.7
15°	5689.4	5208.1	4165.1	2942.9	2130.3	1869.2	1874.3	1918.7	1963.0	1976.7	1973.3
17.5°	5778.2	5179.0	3786.1	2389.8	1807.7	1783.8	1843.6	1903.3	1947.7	1954.5	1956.2
20°	5870.4	5119.3	3354.3	1951.1	1657.5	1718.9	1785.5	1829.9	1862.3	1872.6	1876.0
22.5°	5913.0	4993.0	2855.8	1637.0	1556.8	1638.7	1688.2	1746.3	1756.5	1718.9	1725.8
25°	5890.9	4779.6	2369.3	1425.3	1456.1	1538.0	1611.4	1582.4	1539.7	1512.4	1520.9
27.5°	5820.9	4496.2	1893.1	1270.0	1348.5	1452.7	1461.2	1428.8	1421.9	1399.7	1406.6
30°	5745.8	4170.2	1522.6	1145.4	1239.3	1348.5	1322.9	1334.9	1336.6	1311.0	1319.5
32.5°	5699.7	3828.8	1212.0	1061.8	1169.3	1189.8	1241.0	1264.9	1266.6	1206.8	1217.1
35°	5715.0	3492.5	1025.9	993.5	1104.4	1099.3	1171.0	1184.7	1085.7	1003.7	1012.3
37.5°	5839.6	3181.8	920.1	940.6	991.8	1031.0	1085.7	995.2	973.0	935.4	940.6
40°	6071.8	2917.3	856.9	908.1	915.0	978.1	894.5	906.4	908.1	884.2	889.3
42.5°	6343.2	2697.1	819.4	889.3	872.3	882.5	798.9	822.8	848.4	838.1	839.8
45°	6479.8	2482.0	786.9	824.5	829.6	732.3	713.5	739.1	771.6	776.7	778.4
47.5°	6358.6	2277.1	752.8	730.6	764.7	667.4	645.2	653.8	691.3	711.8	715.2
50°	5988.2	2041.6	701.6	647.0	628.2	599.2	578.7	580.4	623.1	658.9	665.7
52.5°	5467.5	1795.8	617.9	547.9	505.3	527.5	532.6	522.3	561.6	597.4	604.3
55°	4962.2	1488.5	489.9	445.5	406.3	454.1	467.7	454.1	466.0	489.9	491.6
57.5°	3494.2	841.6	375.5	368.7	336.3	389.2	411.4	390.9	370.4	385.8	389.2
60°	1619.9	440.4	288.5	288.5	279.9	334.6	372.1	343.1	303.8	310.7	315.8
62.5°	507.0	278.2	211.7	199.7	228.7	285.1	315.8	286.8	240.7	240.7	247.5
65°	286.8	239.0	167.3	153.6	186.1	228.7	247.5	216.8	175.8	172.4	172.4
67.5°	266.3	227.0	148.5	124.6	131.4	146.8	153.6	133.1	121.2	119.5	121.2
70°	220.2	189.5	119.5	85.3	80.2	78.5	81.9	76.8	73.4	75.1	80.2
72.5°	136.6	114.4	75.1	51.2	44.4	42.7	42.7	42.7	41.0	41.0	41.0
75°	49.5	42.7	34.1	25.6	22.2	20.5	20.5	22.2	20.5	18.8	17.1
77.5°	15.4	13.7	13.7	13.7	11.9	10.2	8.5	8.5	6.8	5.1	5.1
80°	8.5	8.5	8.5	8.5	6.8	6.8	5.1	3.4	1.7	1.7	0.0
82.5°	8.5	8.5	8.5	6.8	6.8	6.8	5.1	3.4	1.7	0.0	0.0
85°	6.8	6.8	6.8	6.8	6.8	6.8	5.1	3.4	1.7	0.0	0.0
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	5.1	3.4	1.7	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)