

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: P640804

Luminaire Tested: GWS-SA5E-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30969.6 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

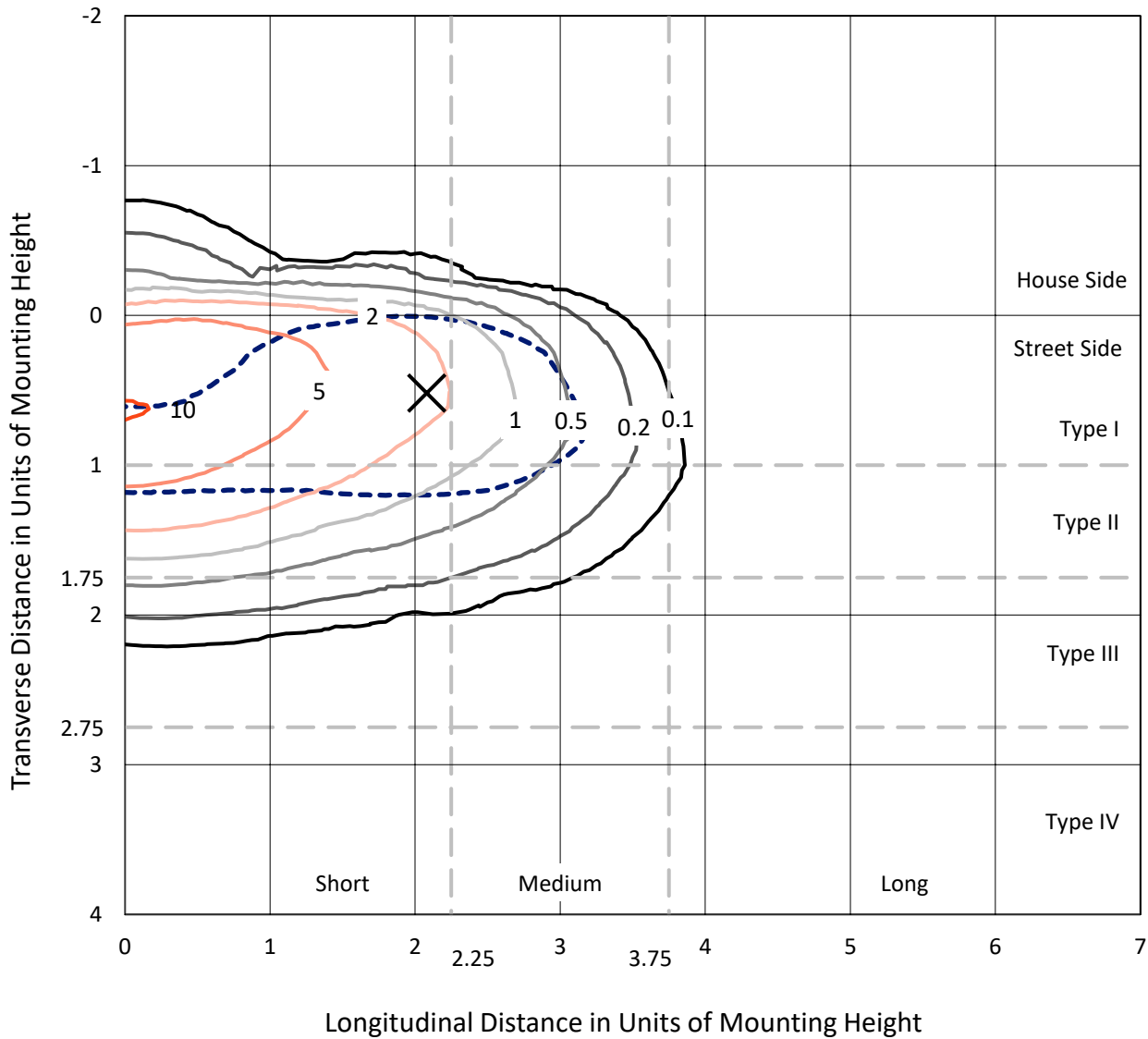
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

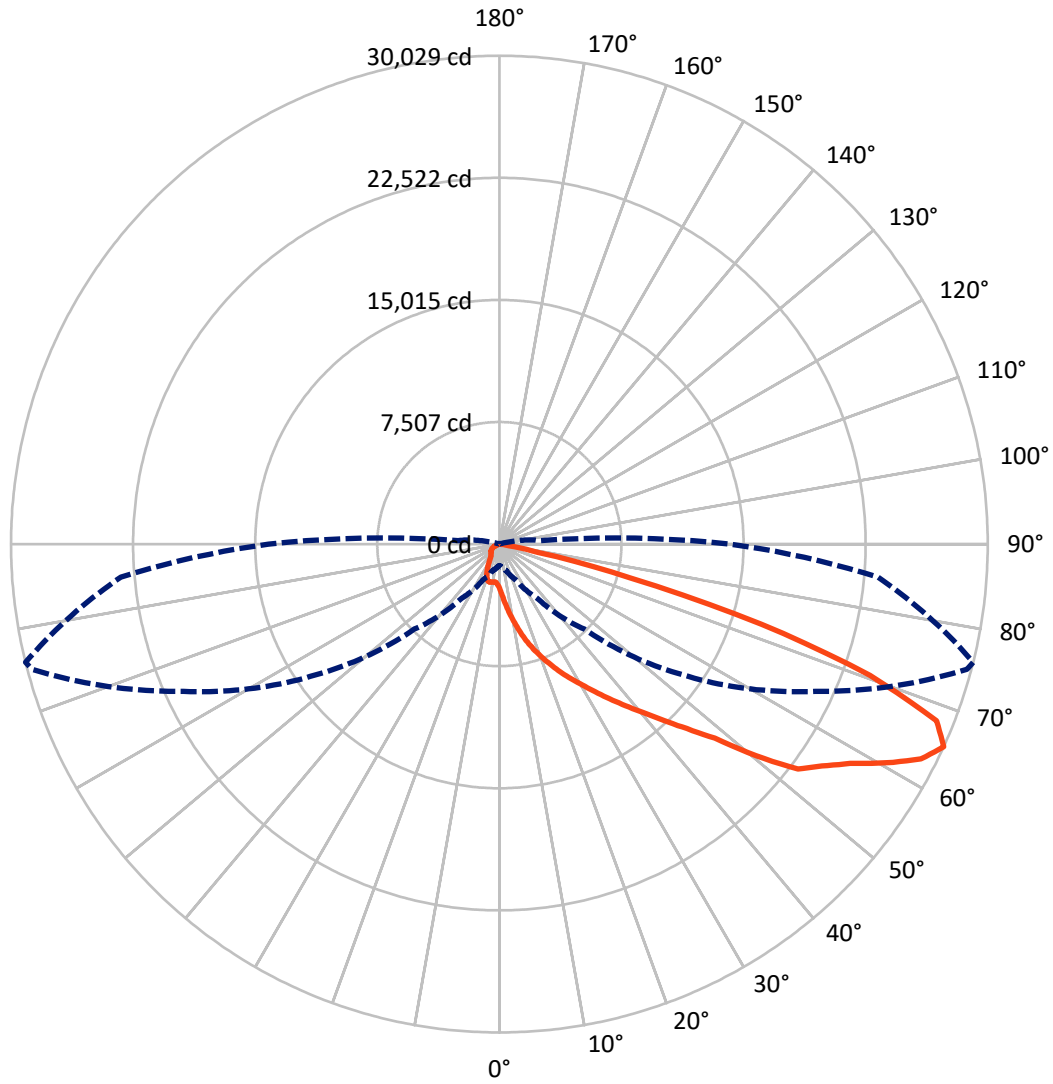
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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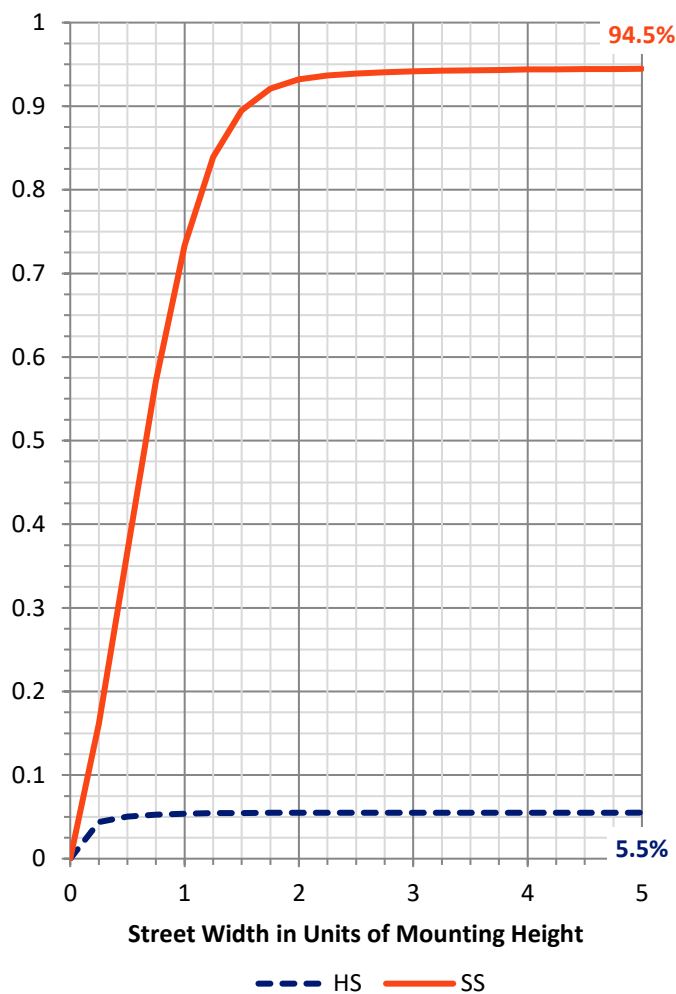
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1712.4	0.0	1712.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	29257.2	0.0	29257.2
	% Fixture	94.5	0.0	94.5
Total	Lumens	30969.6	0.0	30969.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.1
10°-20°	1265.7	4.1
20°-30°	2582.3	8.3
30°-40°	4592.7	14.8
40°-50°	6789.0	21.9
50°-60°	7772.9	25.1
60°-70°	5930.4	19.1
70°-80°	1661.2	5.4
80°-90°	41.8	0.1
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°	30969.6	100.0
0°-180°	30969.6	100.0

Coefficient of Utilization



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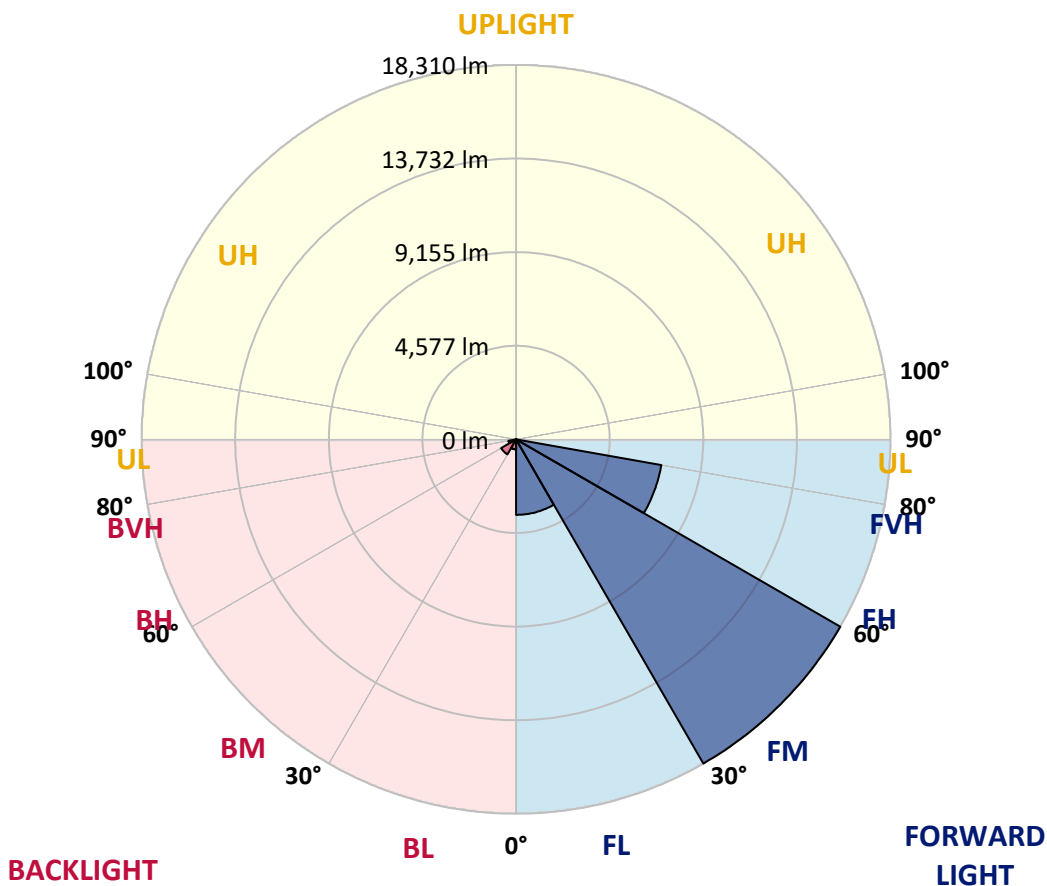
CATALOG NUMBER: GWS-SA5E-750-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3692.9	11.9			
FM (30°-60°)	18309.7	59.1			
FH (60°-80°)	7215.2	23.3			G3/7500
FVH (80°-90°)	39.4	0.1			G1/100
BL (0°-30°)	488.7	1.6	B1/500		
BM (30°-60°)	844.9	2.7	B1/1000		
BH (60°-80°)	376.5	1.2	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: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	4225.8	4289.1	4239.5	4157.0	3997.3	3843.1	3644.9	3372.4	3154.9	3127.4	2923.6
5°	5706.9	5701.4	5594.0	5486.6	5318.7	5054.4	4655.2	4148.7	3661.4	3620.1	3163.1
7.5°	6587.8	6596.1	6535.5	6452.9	6287.7	6015.2	5599.5	4988.3	4275.3	4192.7	3490.7
10°	7328.4	7325.6	7281.6	7243.0	7094.4	6912.7	6466.7	5795.0	4936.0	4806.7	3856.9
12.5°	7884.5	7903.7	7925.7	7964.3	7901.0	7722.0	7300.8	6568.5	5605.0	5461.9	4275.3
15°	8324.9	8330.4	8413.0	8561.7	8614.0	8520.4	8137.7	7317.3	6265.7	6141.8	4757.1
17.5°	8457.1	8468.1	8608.5	8881.0	9156.3	9208.6	8919.6	8071.7	6915.4	6783.3	5225.1
20°	8735.1	8759.9	8864.5	9104.0	9450.9	9731.7	9618.8	8834.2	7565.1	7391.7	5704.1
22.5°	9610.6	9624.3	9588.5	9618.8	9797.8	10122.6	10191.4	9572.0	8231.3	8046.9	6221.7
25°	11116.4	11121.9	10871.4	10634.6	10499.8	10560.3	10711.7	10252.0	8892.0	8710.3	6703.4
27.5°	12680.1	12699.4	12399.3	11997.4	11515.6	11240.3	11196.3	10874.2	9558.2	9357.3	7179.7
30°	14152.9	14152.9	13836.3	13346.3	12702.1	12165.3	11848.7	11501.8	10271.3	10051.0	7667.0
32.5°	15477.1	15466.1	15061.4	14530.1	13894.1	13305.0	12638.8	12157.0	11064.1	10819.1	8228.6
35°	16570.0	16542.5	16082.7	15573.4	14893.5	14455.7	13712.4	12861.8	11923.0	11678.0	8806.7
37.5°	17395.9	17365.6	16944.4	16404.8	15774.4	15490.9	14868.7	13706.9	12828.8	12605.8	9448.1
40°	17844.6	17784.1	17492.3	17090.3	16561.8	16314.0	16055.2	14755.8	13894.1	13616.1	10205.2
42.5°	17976.8	17905.2	17712.5	17525.3	17205.9	17010.5	17288.5	15939.6	15064.1	14824.6	11069.6
45°	17585.9	17544.6	17528.0	17662.9	17720.7	17775.8	18461.3	17250.0	16355.3	16173.6	12157.0
47.5°	16644.3	16633.3	16779.2	17340.8	17952.0	18532.9	19735.9	18866.0	18029.1	17833.6	13676.7
50°	14904.5	15017.3	15424.8	16410.3	17632.7	18962.3	20927.9	21106.9	20738.0	20451.7	15658.8
52.5°	12184.6	12402.0	13316.0	14813.6	16570.0	18841.2	21478.5	22901.8	23279.0	22981.6	17079.3
55°	9561.0	9764.7	10579.6	12479.1	14821.9	17919.0	21503.3	23521.2	24344.3	24069.1	18040.1
57.5°	7121.9	7309.1	8049.6	9866.6	12443.3	16104.8	20914.2	23865.3	25608.0	25431.8	19557.0
60°	4655.2	4839.7	5508.7	7097.1	9651.8	13461.9	19463.4	23793.8	27328.5	27312.0	21420.7
62.5°	2582.3	2728.2	3212.7	4451.5	6736.5	10425.4	17183.9	23075.2	28994.1	29098.7	22956.9
65°	1321.4	1415.0	1709.6	2447.4	4077.1	7391.7	14186.0	21429.0	29764.9	30029.2	23361.5
67.5°	864.4	894.7	966.3	1271.9	2183.1	4649.7	10675.9	18788.9	28680.2	28988.6	22004.3
70°	702.0	726.8	768.1	847.9	1126.0	2469.4	7011.8	15006.3	23964.4	24173.7	17522.5
72.5°	514.8	547.8	627.7	680.0	812.1	1354.5	3647.7	9850.1	16457.1	16826.0	11011.8
75°	379.9	399.2	465.2	536.8	663.5	856.2	1395.7	5178.3	8498.4	8283.6	4625.0
77.5°	228.5	242.3	297.3	344.1	473.5	534.1	487.3	1913.3	2585.0	2430.9	1117.7
80°	112.9	126.6	195.5	258.8	302.8	214.7	203.7	534.1	575.4	575.4	280.8
82.5°	38.5	49.6	104.6	170.7	148.7	82.6	96.4	137.6	154.2	162.4	82.6
85°	0.0	0.0	24.8	49.6	22.0	11.0	24.8	30.3	38.5	41.3	27.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.3	11.0	11.0
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°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2813.5	2684.1	2488.7	2312.5	2177.6	2050.9	1954.6	1877.5	1863.7	1819.7	1825.2
5°	2940.2	2706.2	2345.5	2067.5	1872.0	1739.9	1629.7	1547.2	1511.4	1475.6	1448.1
7.5°	3135.6	2797.0	2290.5	1951.8	1723.3	1519.6	1348.9	1211.3	1145.2	1103.9	1076.4
10°	3375.1	2923.6	2293.2	1883.0	1544.4	1233.3	999.3	847.9	776.3	754.3	751.6
12.5°	3661.4	3083.3	2315.2	1770.1	1285.6	916.7	740.5	671.7	649.7	630.4	630.4
15°	3964.2	3262.2	2315.2	1563.7	980.1	715.8	641.4	597.4	569.9	558.8	553.3
17.5°	4283.6	3430.2	2260.2	1280.1	751.6	630.4	569.9	528.6	506.5	490.0	484.5
20°	4625.0	3589.8	2122.5	980.1	644.2	564.4	506.5	465.2	443.2	426.7	426.7
22.5°	4971.8	3738.5	1899.5	754.3	569.9	501.0	446.0	407.4	385.4	368.9	368.9
25°	5293.9	3837.6	1613.2	622.2	514.8	446.0	396.4	357.9	333.1	322.1	316.6
27.5°	5594.0	3900.9	1296.6	547.8	462.5	399.2	346.9	311.1	291.8	283.6	278.0
30°	5905.1	3917.4	991.1	498.3	418.4	352.4	302.8	275.3	258.8	247.8	247.8
32.5°	6207.9	3898.2	757.1	457.0	379.9	311.1	269.8	245.0	231.2	223.0	220.2
35°	6516.2	3810.1	613.9	421.2	341.4	272.5	239.5	220.2	212.0	201.0	201.0
37.5°	6852.1	3691.7	534.1	385.4	302.8	245.0	214.7	201.0	190.0	181.7	178.9
40°	7270.5	3554.1	490.0	355.1	267.0	220.2	192.7	178.9	170.7	162.4	159.7
42.5°	7766.1	3419.2	468.0	322.1	239.5	195.5	173.4	156.9	148.7	137.6	134.9
45°	8468.1	3388.9	443.2	286.3	214.7	176.2	151.4	134.9	123.9	115.6	112.9
47.5°	9596.8	3474.2	401.9	247.8	190.0	154.2	129.4	115.6	101.9	93.6	88.1
50°	10717.2	3452.2	360.6	214.7	167.9	132.1	110.1	96.4	82.6	74.3	71.6
52.5°	11328.4	3347.6	322.1	190.0	145.9	112.9	93.6	77.1	68.8	60.6	57.8
55°	11881.7	3306.3	283.6	165.2	123.9	99.1	77.1	63.3	57.8	49.6	46.8
57.5°	12966.4	3402.6	250.5	143.2	107.4	85.3	66.1	52.3	46.8	38.5	35.8
60°	14100.6	3413.7	214.7	123.9	93.6	71.6	52.3	41.3	35.8	27.5	24.8
62.5°	14692.5	3135.6	176.2	104.6	77.1	60.6	44.0	33.0	27.5	16.5	16.5
65°	14197.0	2535.5	148.7	85.3	60.6	46.8	33.0	24.8	16.5	8.3	2.8
67.5°	12564.5	1803.2	123.9	68.8	44.0	33.0	24.8	16.5	2.8	0.0	0.0
70°	9200.4	1029.6	96.4	49.6	33.0	22.0	16.5	8.3	0.0	0.0	0.0
72.5°	5654.6	550.6	71.6	33.0	24.8	16.5	13.8	5.5	0.0	0.0	0.0
75°	2144.5	264.3	44.0	22.0	19.3	13.8	8.3	2.8	0.0	0.0	0.0
77.5°	580.9	129.4	24.8	16.5	13.8	8.3	5.5	0.0	0.0	0.0	0.0
80°	151.4	60.6	16.5	11.0	8.3	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	27.5	8.3	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
85°	22.0	11.0	5.5	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	2.8	2.8	2.8	2.8	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)