

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: P640144

Luminaire Tested: GWS-SA5D-730-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640144
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-SA5D-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22061.9 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

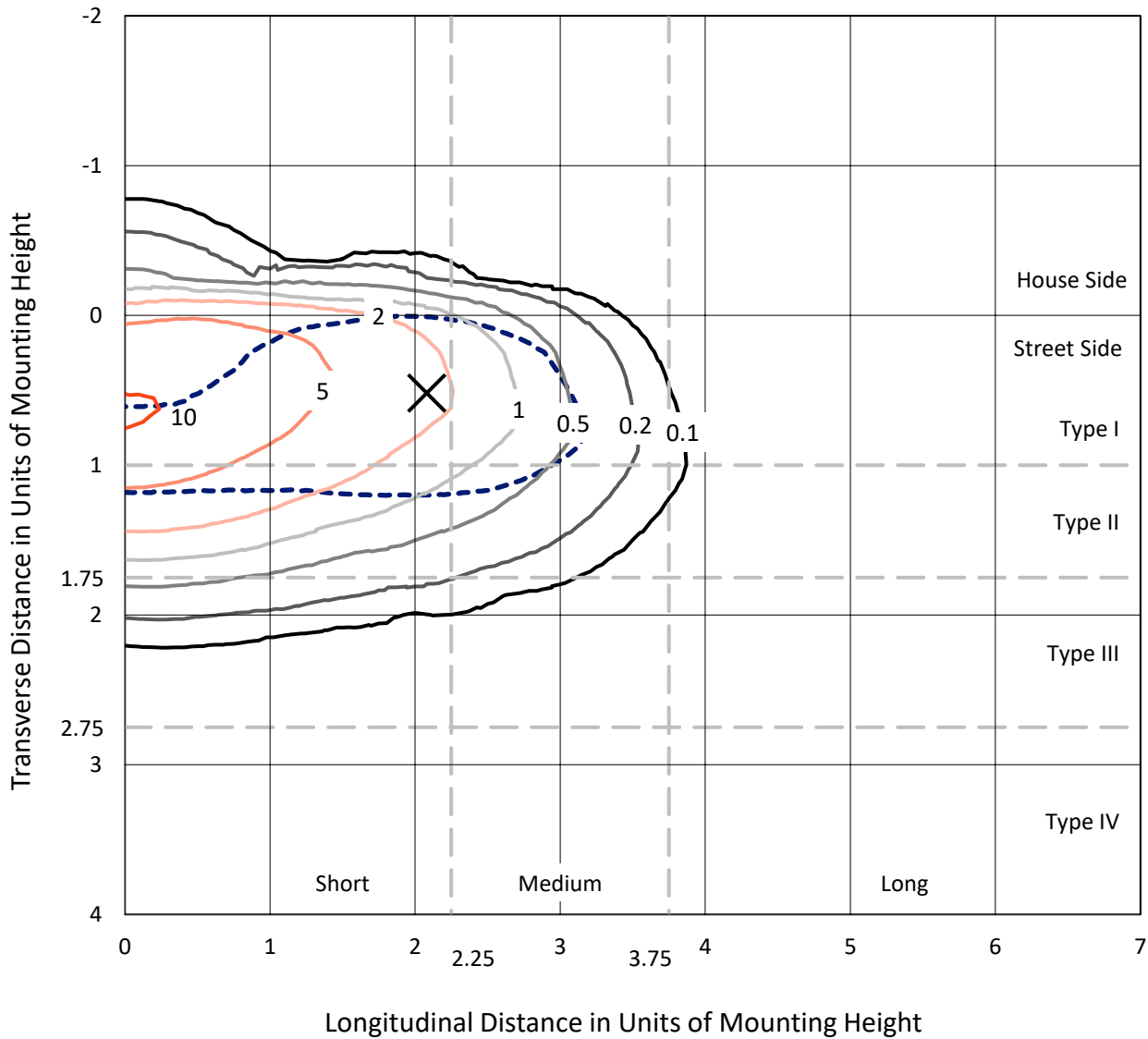
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

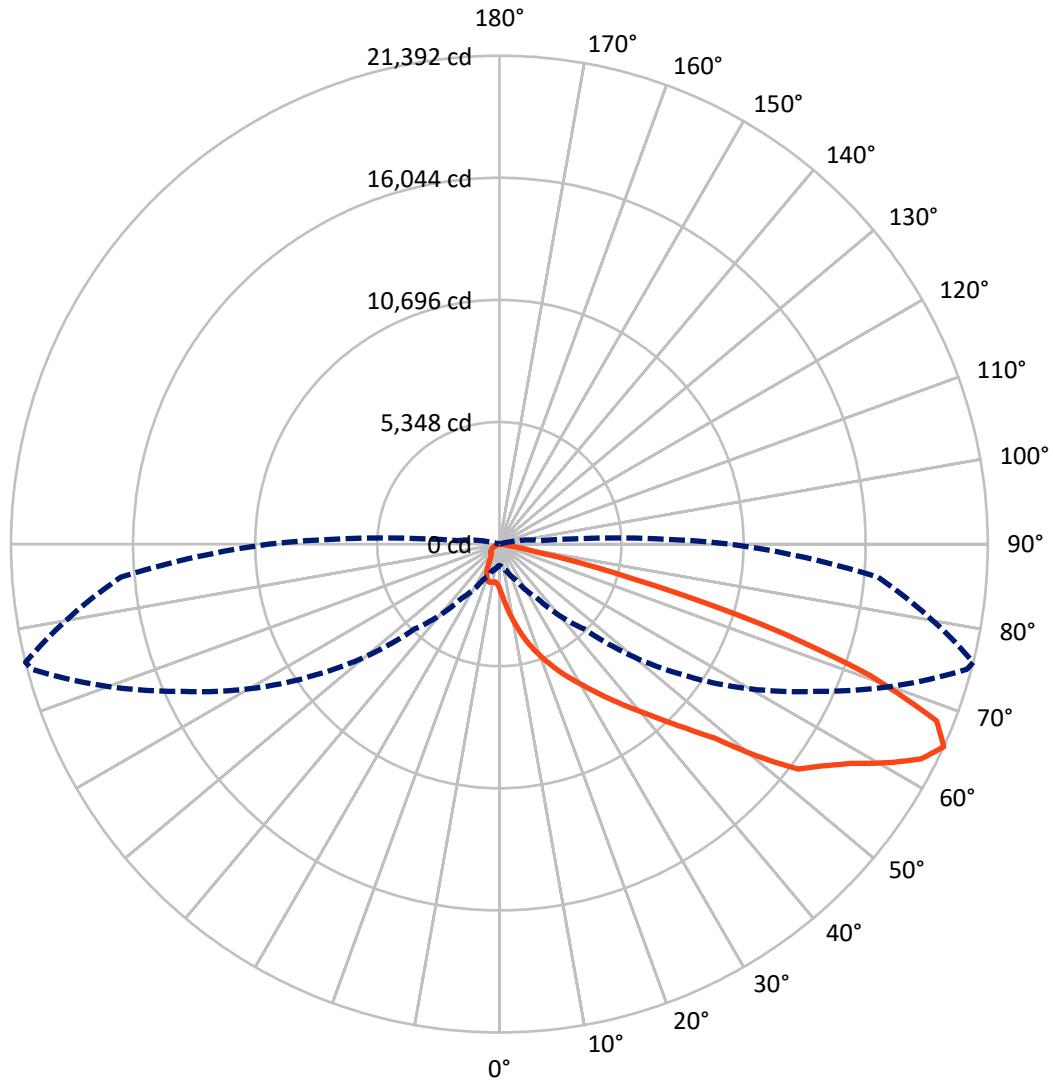
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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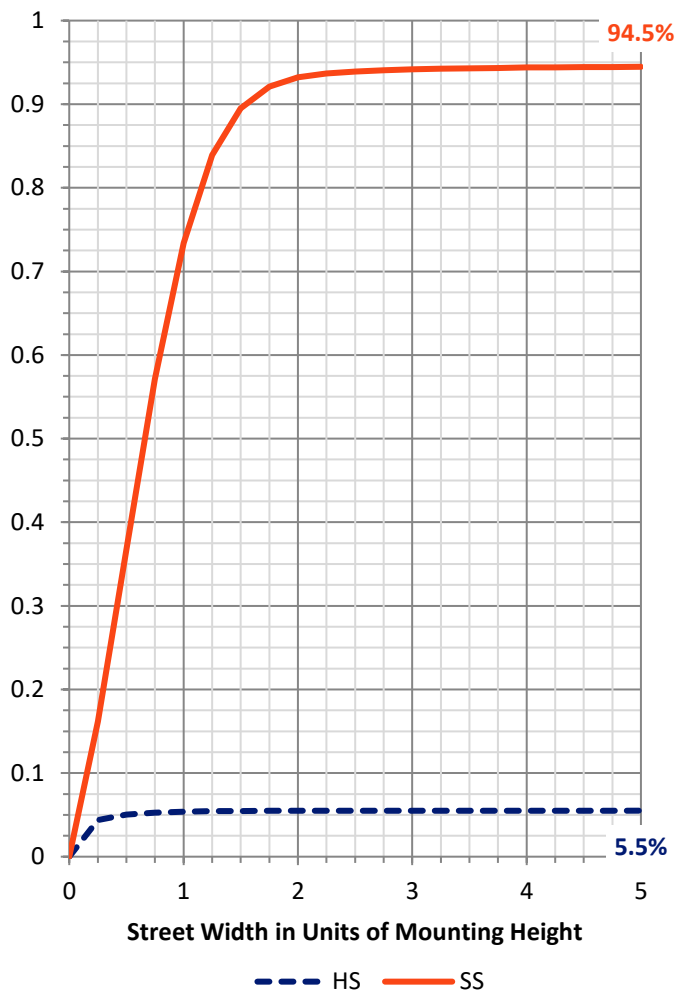
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.9	0.0	1219.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	20842.0	0.0	20842.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	22061.9	0.0	22061.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.1
10°-20°	901.7	4.1
20°-30°	1839.5	8.3
30°-40°	3271.7	14.8
40°-50°	4836.3	21.9
50°-60°	5537.2	25.1
60°-70°	4224.6	19.1
70°-80°	1183.4	5.4
80°-90°	29.8	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°	22061.9	100.0
0°-180°	22061.9	100.0

Coefficient of Utilization



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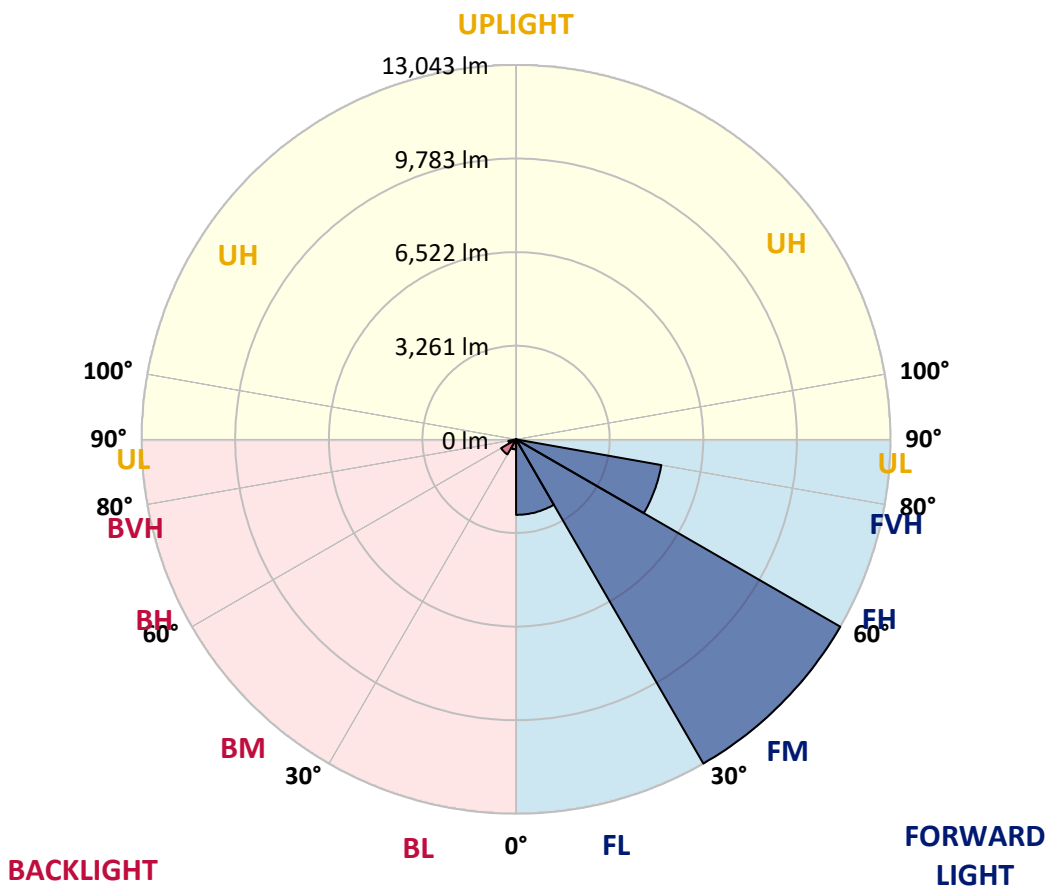
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.7	11.9			
FM (30°-60°)	13043.3	59.1			
FH (60°-80°)	5139.9	23.3			G3/7500
FVH (80°-90°)	28.1	0.1			G1/100
BL (0°-30°)	348.1	1.6	B1/500		
BM (30°-60°)	601.9	2.7	B1/1000		
BH (60°-80°)	268.2	1.2	B1/500		G1/500
BVH (80°-90°)	1.7	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°	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3
2.5°	3010.3	3055.4	3020.1	2961.3	2847.6	2737.7	2596.5	2402.4	2247.5	2227.8	2082.7
5°	4065.4	4061.5	3985.0	3908.5	3788.9	3600.6	3316.3	2955.4	2608.3	2578.9	2253.3
7.5°	4693.0	4698.9	4655.7	4596.9	4479.2	4285.1	3988.9	3553.6	3045.6	2986.8	2486.7
10°	5220.5	5218.6	5187.2	5159.7	5053.8	4924.4	4606.7	4128.2	3516.3	3424.1	2747.5
12.5°	5616.7	5630.4	5646.1	5673.5	5628.4	5501.0	5200.9	4679.2	3992.9	3890.9	3045.6
15°	5930.4	5934.4	5993.2	6099.1	6136.4	6069.7	5797.1	5212.7	4463.5	4375.3	3388.8
17.5°	6024.6	6032.4	6132.4	6326.6	6522.7	6560.0	6354.1	5750.0	4926.4	4832.2	3722.2
20°	6222.7	6240.3	6314.8	6485.4	6732.6	6932.6	6852.2	6293.3	5389.2	5265.6	4063.5
22.5°	6846.3	6856.1	6830.6	6852.2	6979.7	7211.1	7260.1	6818.8	5863.8	5732.4	4432.1
25°	7919.0	7923.0	7744.5	7575.8	7479.7	7522.9	7630.7	7303.2	6334.4	6205.0	4775.3
27.5°	9033.0	9046.7	8832.9	8546.6	8203.4	8007.3	7975.9	7746.5	6809.0	6665.9	5114.6
30°	10082.2	10082.2	9856.6	9507.5	9048.6	8666.2	8440.7	8193.6	7317.0	7160.1	5461.7
32.5°	11025.5	11017.6	10729.3	10350.8	9897.8	9478.1	9003.5	8660.3	7881.8	7707.2	5861.8
35°	11804.0	11784.4	11456.9	11094.1	10609.7	10297.9	9768.4	9162.4	8493.6	8319.1	6273.6
37.5°	12392.4	12370.8	12070.7	11686.4	11237.3	11035.3	10592.0	9764.5	9138.9	8980.0	6730.6
40°	12712.0	12668.9	12461.0	12174.7	11798.1	11621.6	11437.3	10511.6	9897.8	9699.7	7269.9
42.5°	12806.2	12755.2	12617.9	12484.5	12257.0	12117.8	12315.9	11354.9	10731.3	10560.7	7885.7
45°	12527.7	12498.3	12486.5	12582.6	12623.8	12663.0	13151.3	12288.4	11651.1	11521.6	8660.3
47.5°	11857.0	11849.1	11953.1	12353.1	12788.5	13202.3	14059.3	13439.6	12843.4	12704.2	9742.9
50°	10617.5	10697.9	10988.2	11690.3	12561.0	13508.2	14908.5	15036.0	14773.2	14569.2	11154.9
52.5°	8679.9	8834.9	9486.0	10552.8	11804.0	13422.0	15300.7	16314.6	16583.3	16371.5	12166.8
55°	6811.0	6956.1	7536.6	8889.8	10558.7	12765.0	15318.4	16755.9	17342.2	17146.1	12851.3
57.5°	5073.4	5206.8	5734.3	7028.7	8864.3	11472.6	14898.7	17001.0	18242.4	18116.9	13931.8
60°	3316.3	3447.7	3924.2	5055.8	6875.7	9589.9	13865.2	16950.0	19468.1	19456.3	15259.5
62.5°	1839.5	1943.5	2288.6	3171.1	4798.9	7426.8	12241.4	16438.2	20654.6	20729.1	16353.8
65°	941.3	1008.0	1217.9	1743.4	2904.4	5265.6	10105.7	15265.4	21203.7	21392.0	16642.1
67.5°	615.8	637.4	688.4	906.0	1555.2	3312.3	7605.3	13384.7	20431.0	20650.7	15675.3
70°	500.1	517.7	547.2	604.0	802.1	1759.1	4995.0	10690.1	17071.6	17220.7	12482.6
72.5°	366.7	390.3	447.1	484.4	578.5	964.9	2598.5	7016.9	11723.6	11986.4	7844.5
75°	270.6	284.4	331.4	382.4	472.6	609.9	994.3	3688.9	6054.0	5901.0	3294.7
77.5°	162.8	172.6	211.8	245.1	337.3	380.5	347.1	1363.0	1841.5	1731.7	796.2
80°	80.4	90.2	139.2	184.3	215.7	153.0	145.1	380.5	409.9	409.9	200.0
82.5°	27.5	35.3	74.5	121.6	105.9	58.8	68.6	98.1	109.8	115.7	58.8
85°	0.0	0.0	17.7	35.3	15.7	7.8	17.7	21.6	27.5	29.4	19.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.9	7.8	7.8
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°	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3
2.5°	2004.3	1912.1	1772.9	1647.3	1551.3	1461.0	1392.4	1337.5	1327.7	1296.3	1300.2
5°	2094.5	1927.8	1670.9	1472.8	1333.6	1239.4	1161.0	1102.2	1076.7	1051.2	1031.6
7.5°	2233.7	1992.5	1631.7	1390.4	1227.7	1082.5	961.0	862.9	815.8	786.4	766.8
10°	2404.3	2082.7	1633.6	1341.4	1100.2	878.6	711.9	604.0	553.0	537.3	535.4
12.5°	2608.3	2196.5	1649.3	1261.0	915.8	653.1	527.5	478.5	462.8	449.1	449.1
15°	2824.0	2323.9	1649.3	1113.9	698.2	509.9	456.9	425.6	406.0	398.1	394.2
17.5°	3051.5	2443.6	1610.1	911.9	535.4	449.1	406.0	376.5	360.8	349.1	345.2
20°	3294.7	2557.3	1512.0	698.2	458.9	402.0	360.8	331.4	315.7	304.0	304.0
22.5°	3541.8	2663.2	1353.2	537.3	406.0	356.9	317.7	290.2	274.6	262.8	262.8
25°	3771.2	2733.8	1149.2	443.2	366.7	317.7	282.4	254.9	237.3	229.5	225.5
27.5°	3985.0	2778.9	923.7	390.3	329.5	284.4	247.1	221.6	207.9	202.0	198.1
30°	4206.6	2790.7	706.0	355.0	298.1	251.0	215.7	196.1	184.3	176.5	176.5
32.5°	4422.3	2777.0	539.3	325.5	270.6	221.6	192.2	174.5	164.7	158.9	156.9
35°	4642.0	2714.2	437.3	300.1	243.2	194.2	170.6	156.9	151.0	143.2	143.2
37.5°	4881.2	2629.9	380.5	274.6	215.7	174.5	153.0	143.2	135.3	129.4	127.5
40°	5179.3	2531.8	349.1	253.0	190.2	156.9	137.3	127.5	121.6	115.7	113.7
42.5°	5532.3	2435.7	333.4	229.5	170.6	139.2	123.6	111.8	105.9	98.1	96.1
45°	6032.4	2414.1	315.7	204.0	153.0	125.5	107.9	96.1	88.3	82.4	80.4
47.5°	6836.5	2474.9	286.3	176.5	135.3	109.8	92.2	82.4	72.6	66.7	62.8
50°	7634.7	2459.3	256.9	153.0	119.6	94.1	78.4	68.6	58.8	53.0	51.0
52.5°	8070.0	2384.7	229.5	135.3	103.9	80.4	66.7	54.9	49.0	43.1	41.2
55°	8464.2	2355.3	202.0	117.7	88.3	70.6	54.9	45.1	41.2	35.3	33.3
57.5°	9236.9	2424.0	178.5	102.0	76.5	60.8	47.1	37.3	33.3	27.5	25.5
60°	10044.9	2431.8	153.0	88.3	66.7	51.0	37.3	29.4	25.5	19.6	17.7
62.5°	10466.5	2233.7	125.5	74.5	54.9	43.1	31.4	23.5	19.6	11.8	11.8
65°	10113.5	1806.2	105.9	60.8	43.1	33.3	23.5	17.7	11.8	5.9	2.0
67.5°	8950.6	1284.5	88.3	49.0	31.4	23.5	17.7	11.8	2.0	0.0	0.0
70°	6554.1	733.5	68.6	35.3	23.5	15.7	11.8	5.9	0.0	0.0	0.0
72.5°	4028.2	392.2	51.0	23.5	17.7	11.8	9.8	3.9	0.0	0.0	0.0
75°	1527.7	188.3	31.4	15.7	13.7	9.8	5.9	2.0	0.0	0.0	0.0
77.5°	413.8	92.2	17.7	11.8	9.8	5.9	3.9	0.0	0.0	0.0	0.0
80°	107.9	43.1	11.8	7.8	5.9	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	37.3	19.6	5.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	7.8	3.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.0	2.0	2.0	2.0	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)