

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: P640474

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640474
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-830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19246 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

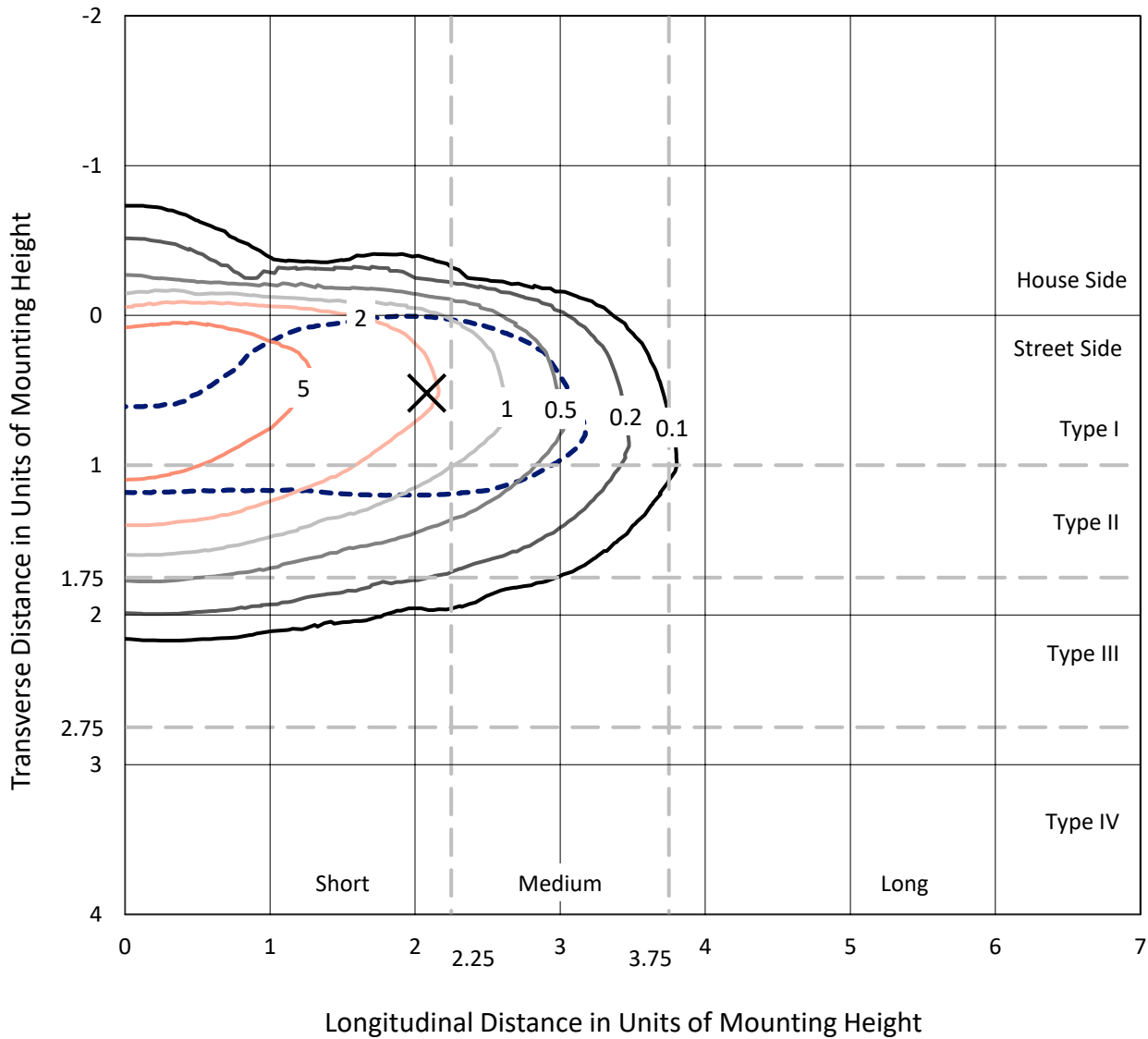
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

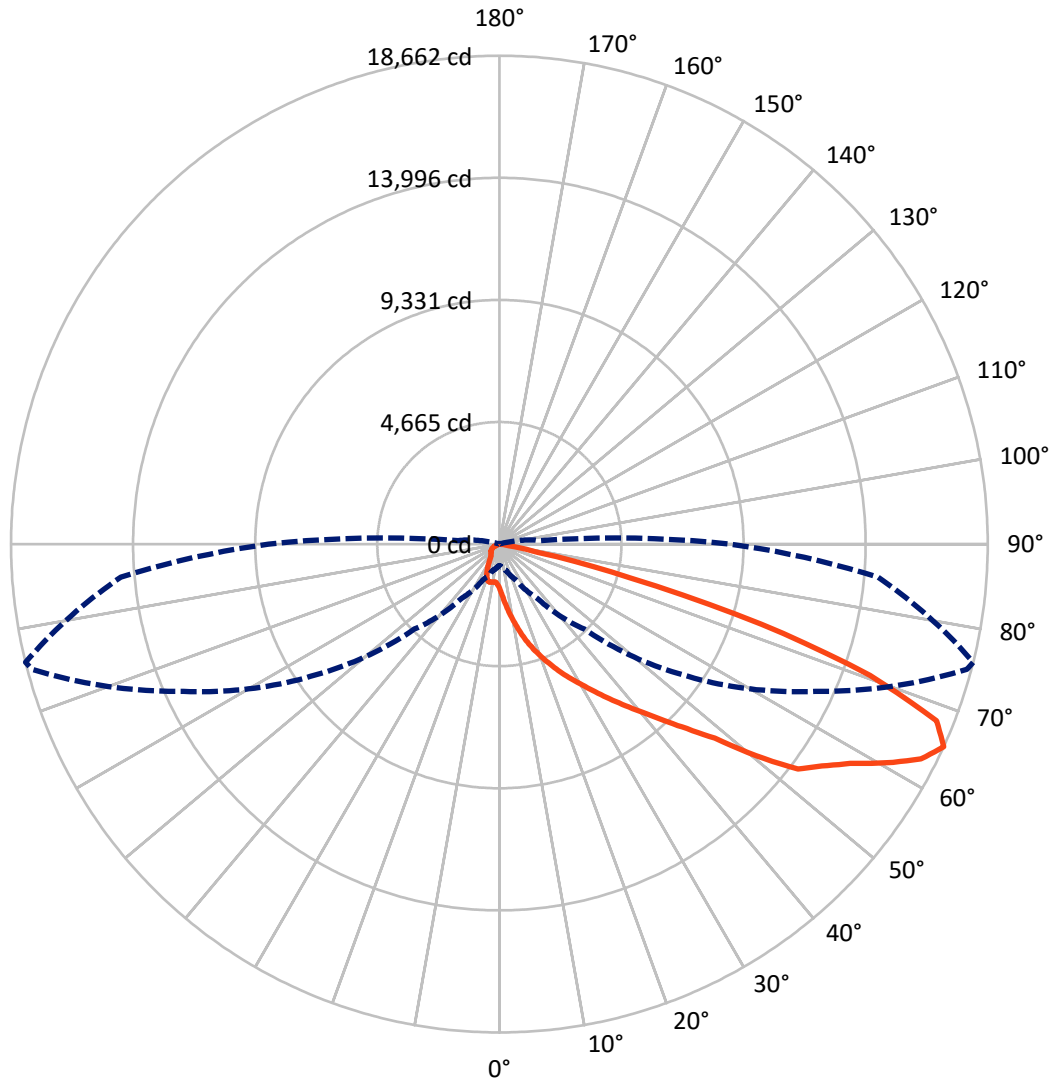
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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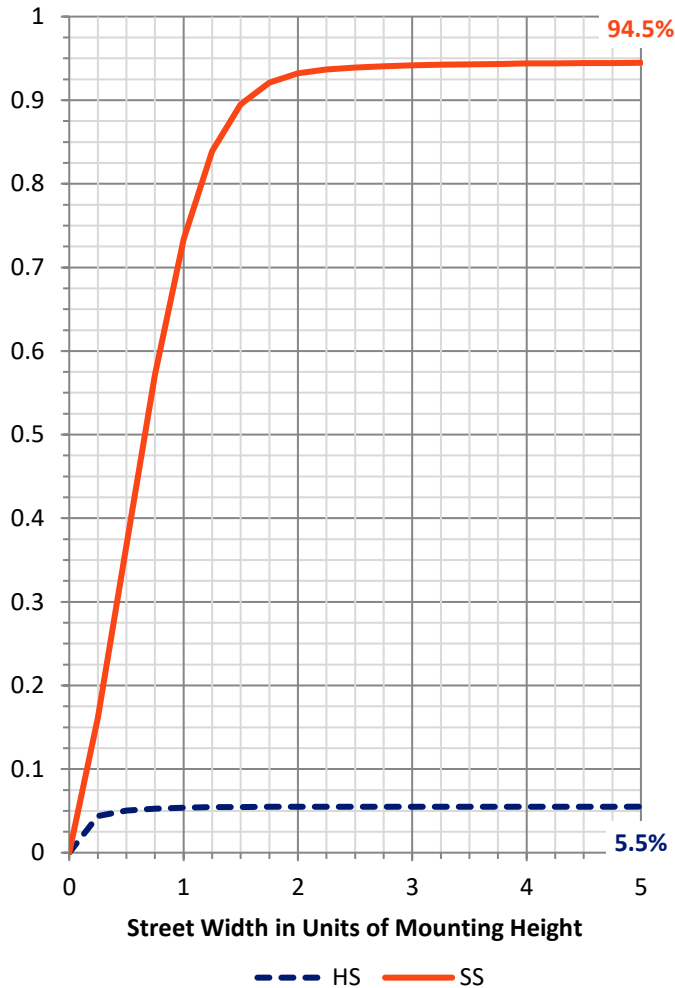
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.2	0.0	1064.2
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	18181.8	0.0	18181.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	19246.0	0.0	19246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.1
10°-20°	786.6	4.1
20°-30°	1604.7	8.3
30°-40°	2854.1	14.8
40°-50°	4219.0	21.9
50°-60°	4830.5	25.1
60°-70°	3685.4	19.1
70°-80°	1032.4	5.4
80°-90°	26.0	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°	19246.0	100.0
0°-180°	19246.0	100.0

Coefficient of Utilization



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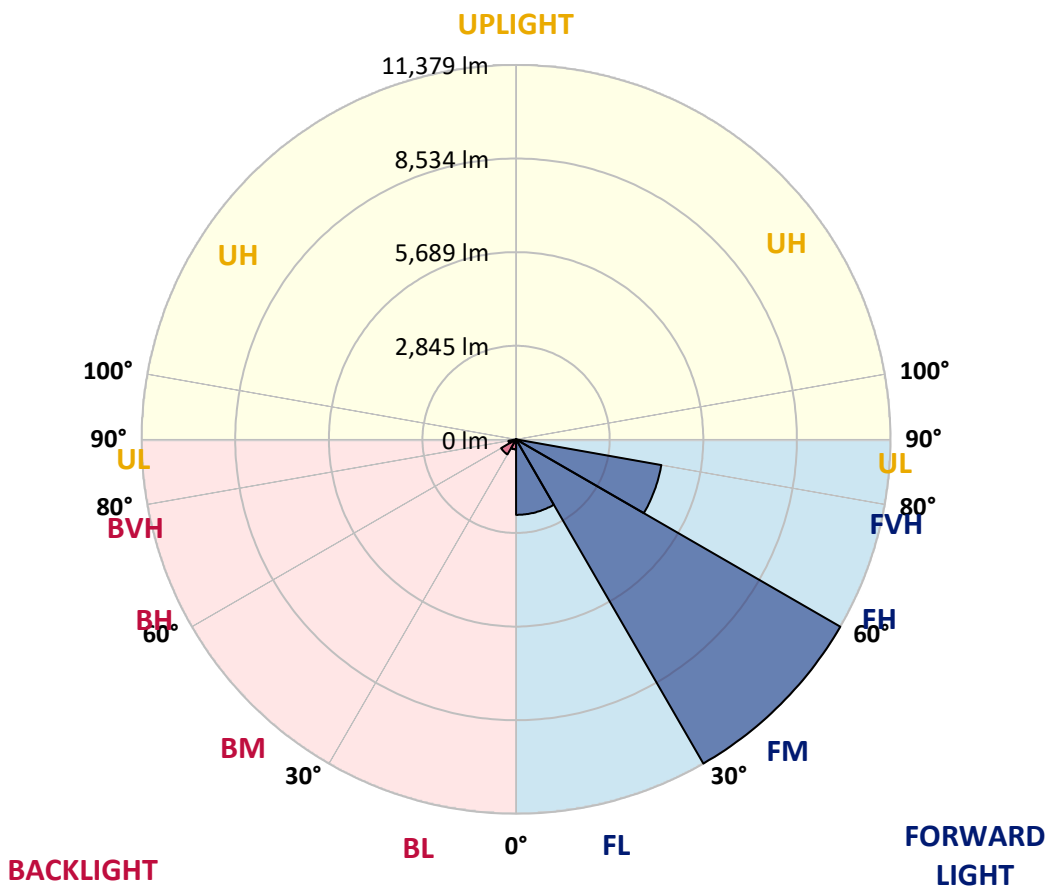
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.9	11.9			
FM (30°-60°)	11378.5	59.1			
FH (60°-80°)	4483.9	23.3			G2/5000
FVH (80°-90°)	24.5	0.1			G1/100
BL (0°-30°)	303.7	1.6	B1/500		
BM (30°-60°)	525.1	2.7	B1/1000		
BH (60°-80°)	233.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0
2.5°	2626.1	2665.5	2634.7	2583.3	2484.1	2388.3	2265.1	2095.7	1960.6	1943.5	1816.9
5°	3546.5	3543.1	3476.4	3409.7	3305.3	3141.1	2893.0	2578.2	2275.4	2249.7	1965.7
7.5°	4094.0	4099.1	4061.5	4010.2	3907.5	3738.1	3479.8	3100.0	2656.9	2605.6	2169.3
10°	4554.2	4552.5	4525.1	4501.2	4408.8	4295.9	4018.7	3601.3	3067.5	2987.1	2396.9
12.5°	4899.8	4911.8	4925.4	4949.4	4910.0	4798.8	4537.1	4082.0	3483.2	3394.3	2656.9
15°	5173.5	5176.9	5228.3	5320.6	5353.1	5295.0	5057.2	4547.3	3893.8	3816.8	2956.3
17.5°	5255.6	5262.5	5349.7	5519.1	5690.2	5722.7	5543.0	5016.1	4297.6	4215.5	3247.1
20°	5428.4	5443.8	5508.8	5657.7	5873.2	6047.7	5977.6	5490.0	4701.3	4593.5	3544.8
22.5°	5972.5	5981.0	5958.8	5977.6	6088.8	6290.7	6333.4	5948.5	5115.3	5000.7	3866.4
25°	6908.3	6911.7	6756.0	6608.9	6525.1	6562.7	6656.8	6371.1	5525.9	5413.0	4165.8
27.5°	7880.0	7892.0	7705.5	7455.7	7156.3	6985.3	6957.9	6757.7	5940.0	5815.1	4461.8
30°	8795.3	8795.3	8598.6	8294.0	7893.7	7560.1	7363.4	7147.8	6383.1	6246.2	4764.6
32.5°	9618.2	9611.4	9359.9	9029.7	8634.5	8268.4	7854.4	7555.0	6875.8	6723.5	5113.6
35°	10297.4	10280.3	9994.6	9678.1	9255.5	8983.5	8521.6	7992.9	7409.5	7257.3	5472.9
37.5°	10810.6	10791.8	10530.1	10194.8	9803.0	9626.8	9240.1	8518.2	7972.4	7833.8	5871.5
40°	11089.5	11051.9	10870.5	10620.7	10292.3	10138.3	9977.5	9170.0	8634.5	8461.7	6342.0
42.5°	11171.6	11127.1	11007.4	10891.1	10692.6	10571.1	10743.9	9905.6	9361.6	9212.7	6879.2
45°	10928.7	10903.0	10892.8	10976.6	11012.5	11046.7	11472.7	10720.0	10164.0	10051.0	7555.0
47.5°	10343.6	10336.8	10427.4	10776.4	11156.2	11517.2	12264.8	11724.2	11204.1	11082.7	8499.3
50°	9262.4	9332.5	9585.7	10198.2	10957.8	11784.1	13005.6	13116.8	12887.6	12709.7	9731.1
52.5°	7572.1	7707.2	8275.2	9205.9	10297.4	11708.8	13347.8	14232.3	14466.7	14281.9	10613.9
55°	5941.7	6068.3	6574.7	7755.1	9211.0	11135.7	13363.2	14617.2	15128.7	14957.7	11211.0
57.5°	4425.9	4542.2	5002.4	6131.6	7732.9	10008.3	12997.1	14831.1	15914.0	15804.5	12153.6
60°	2893.0	3007.6	3423.3	4410.5	5998.1	8365.9	12095.5	14786.6	16983.3	16973.0	13311.9
62.5°	1604.7	1695.4	1996.5	2766.4	4186.4	6478.9	10678.9	14340.1	18018.3	18083.3	14266.5
65°	821.2	879.4	1062.4	1520.9	2533.7	4593.5	8815.8	13317.0	18497.3	18661.6	14518.0
67.5°	537.2	556.0	600.5	790.4	1356.7	2889.6	6634.5	11676.3	17823.3	18014.9	13674.6
70°	436.3	451.7	477.3	526.9	699.7	1534.6	4357.4	9325.7	14892.7	15022.7	10889.3
72.5°	319.9	340.5	390.1	422.6	504.7	841.7	2266.8	6121.3	10227.3	10456.5	6843.3
75°	236.1	248.1	289.1	333.6	412.3	532.1	867.4	3218.0	5281.3	5147.8	2874.2
77.5°	142.0	150.6	184.8	213.9	294.3	331.9	302.8	1189.0	1606.5	1510.7	694.6
80°	70.1	78.7	121.5	160.8	188.2	133.4	126.6	331.9	357.6	357.6	174.5
82.5°	24.0	30.8	65.0	106.1	92.4	51.3	59.9	85.5	95.8	100.9	51.3
85°	0.0	0.0	15.4	30.8	13.7	6.8	15.4	18.8	24.0	25.7	17.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	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°	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0	1704.0
2.5°	1748.5	1668.0	1546.6	1437.1	1353.3	1274.6	1214.7	1166.8	1158.2	1130.8	1134.3
5°	1827.2	1681.7	1457.6	1284.8	1163.4	1081.2	1012.8	961.5	939.2	917.0	899.9
7.5°	1948.6	1738.2	1423.4	1213.0	1071.0	944.4	838.3	752.8	711.7	686.0	668.9
10°	2097.5	1816.9	1425.1	1170.2	959.8	766.4	621.0	526.9	482.5	468.8	467.1
12.5°	2275.4	1916.1	1438.8	1100.1	799.0	569.7	460.2	417.4	403.8	391.8	391.8
15°	2463.6	2027.3	1438.8	971.7	609.1	444.8	398.6	371.2	354.1	347.3	343.9
17.5°	2662.0	2131.7	1404.6	795.5	467.1	391.8	354.1	328.5	314.8	304.5	301.1
20°	2874.2	2230.9	1319.0	609.1	400.3	350.7	314.8	289.1	275.4	265.2	265.2
22.5°	3089.7	2323.3	1180.5	468.8	354.1	311.4	277.2	253.2	239.5	229.2	229.2
25°	3289.9	2384.9	1002.5	386.6	319.9	277.2	246.4	222.4	207.0	200.2	196.7
27.5°	3476.4	2424.2	805.8	340.5	287.4	248.1	215.6	193.3	181.3	176.2	172.8
30°	3669.7	2434.5	615.9	309.7	260.0	219.0	188.2	171.1	160.8	154.0	154.0
32.5°	3857.9	2422.5	470.5	284.0	236.1	193.3	167.7	152.3	143.7	138.6	136.9
35°	4049.5	2367.8	381.5	261.8	212.1	169.4	148.8	136.9	131.7	124.9	124.9
37.5°	4258.2	2294.2	331.9	239.5	188.2	152.3	133.4	124.9	118.0	112.9	111.2
40°	4518.3	2208.7	304.5	220.7	165.9	136.9	119.8	111.2	106.1	100.9	99.2
42.5°	4826.2	2124.8	290.8	200.2	148.8	121.5	107.8	97.5	92.4	85.5	83.8
45°	5262.5	2106.0	275.4	177.9	133.4	109.5	94.1	83.8	77.0	71.9	70.1
47.5°	5963.9	2159.1	249.8	154.0	118.0	95.8	80.4	71.9	63.3	58.2	54.7
50°	6660.2	2145.4	224.1	133.4	104.4	82.1	68.4	59.9	51.3	46.2	44.5
52.5°	7040.0	2080.4	200.2	118.0	90.7	70.1	58.2	47.9	42.8	37.6	35.9
55°	7383.9	2054.7	176.2	102.6	77.0	61.6	47.9	39.3	35.9	30.8	29.1
57.5°	8057.9	2114.6	155.7	89.0	66.7	53.0	41.1	32.5	29.1	24.0	22.2
60°	8762.8	2121.4	133.4	77.0	58.2	44.5	32.5	25.7	22.2	17.1	15.4
62.5°	9130.6	1948.6	109.5	65.0	47.9	37.6	27.4	20.5	17.1	10.3	10.3
65°	8822.7	1575.7	92.4	53.0	37.6	29.1	20.5	15.4	10.3	5.1	1.7
67.5°	7808.2	1120.6	77.0	42.8	27.4	20.5	15.4	10.3	1.7	0.0	0.0
70°	5717.5	639.8	59.9	30.8	20.5	13.7	10.3	5.1	0.0	0.0	0.0
72.5°	3514.0	342.2	44.5	20.5	15.4	10.3	8.6	3.4	0.0	0.0	0.0
75°	1332.7	164.2	27.4	13.7	12.0	8.6	5.1	1.7	0.0	0.0	0.0
77.5°	361.0	80.4	15.4	10.3	8.6	5.1	3.4	0.0	0.0	0.0	0.0
80°	94.1	37.6	10.3	6.8	5.1	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	32.5	17.1	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
85°	13.7	6.8	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.7	1.7	1.7	1.7	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)