

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: P640114

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22940.4 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

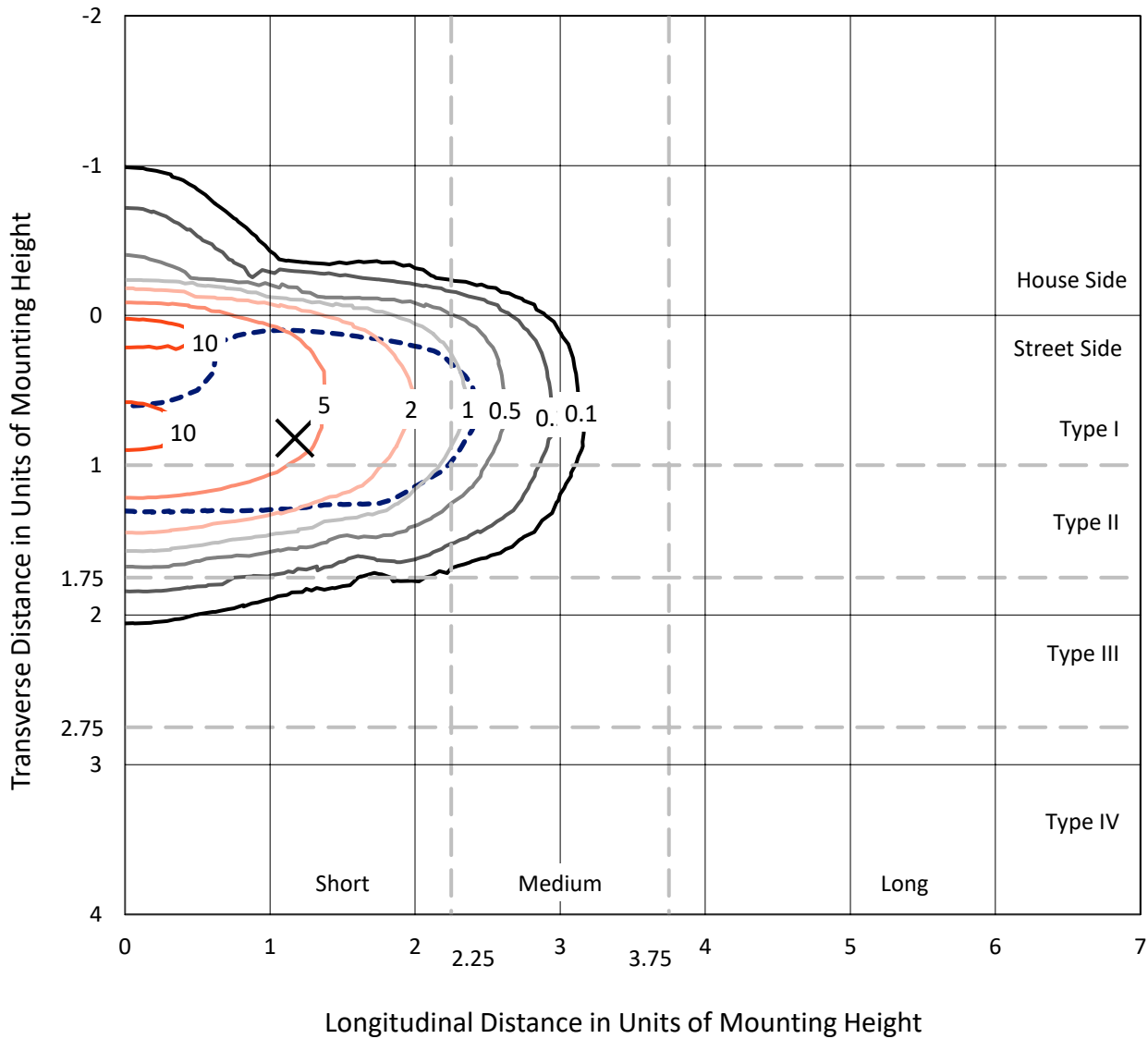
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

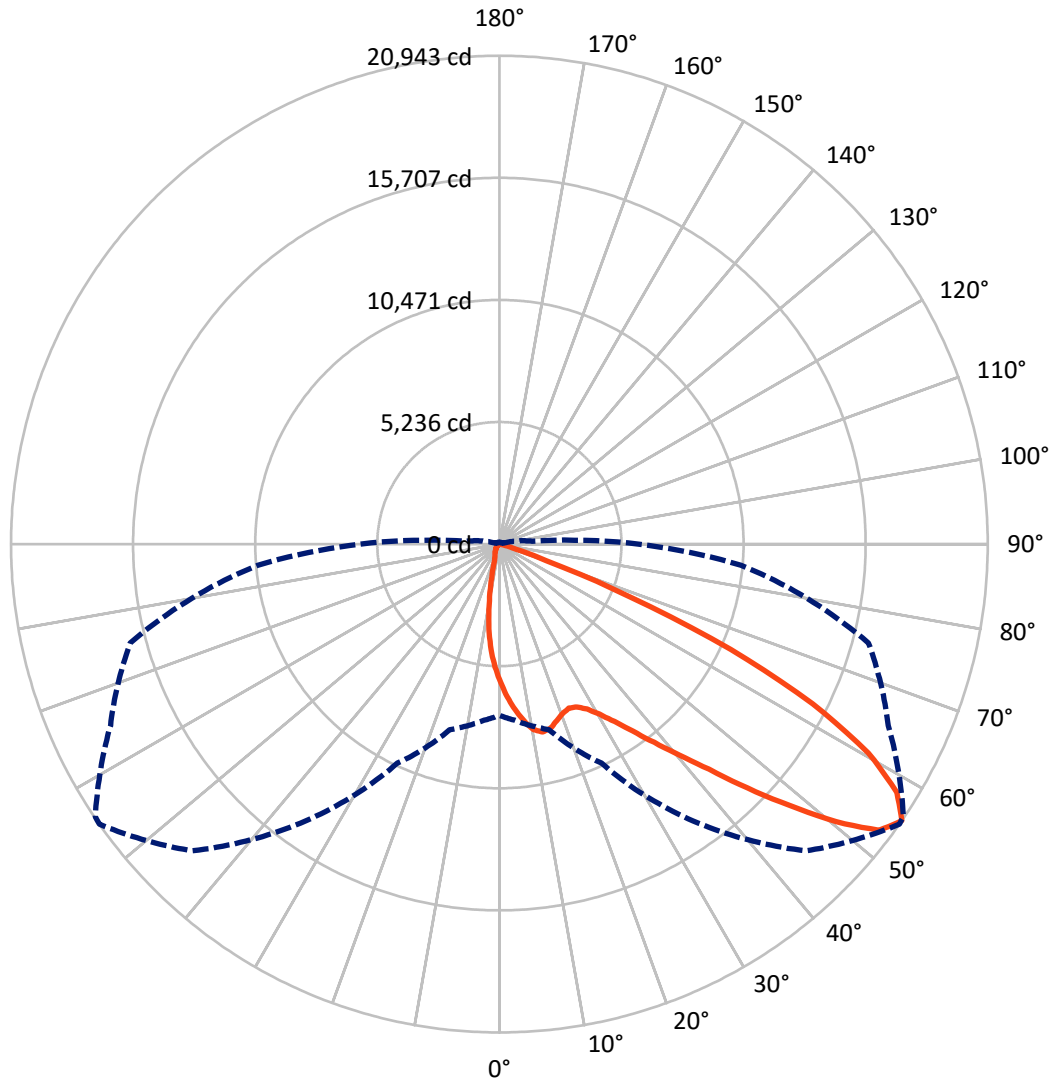
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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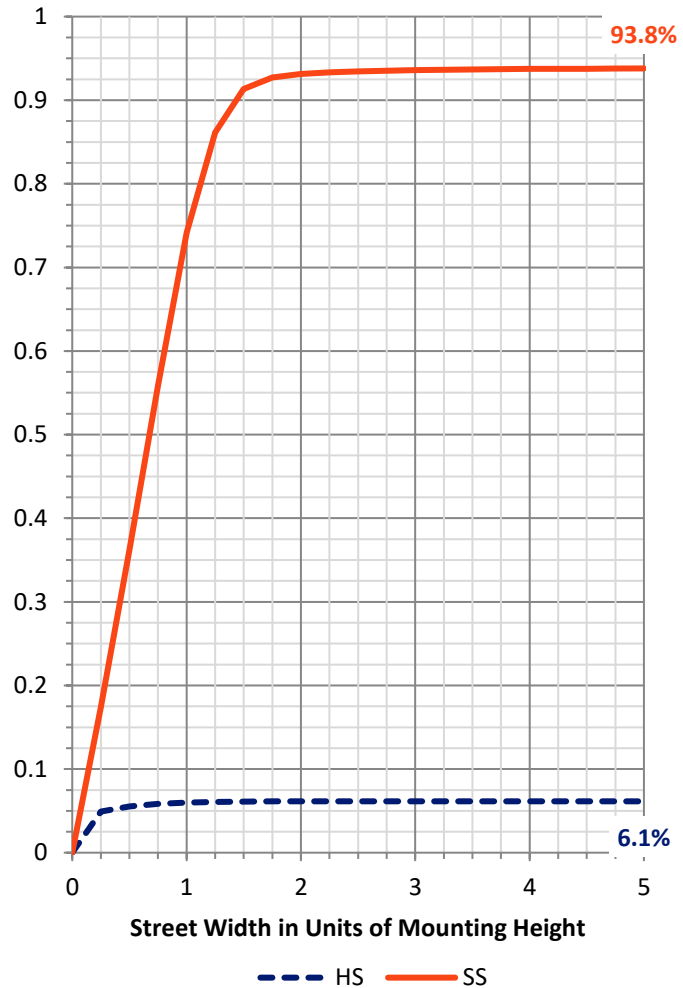
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1415.5	0.0	1415.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	21524.9	0.0	21524.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	22940.4	0.0	22940.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.8	2.3
10°-20°	1262.7	5.5
20°-30°	2102.9	9.2
30°-40°	3583.5	15.6
40°-50°	5849.5	25.5
50°-60°	6124.1	26.7
60°-70°	3088.9	13.5
70°-80°	390.2	1.7
80°-90°	14.8	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°	22940.4	100.0
0°-180°	22940.4	100.0

Coefficient of Utilization



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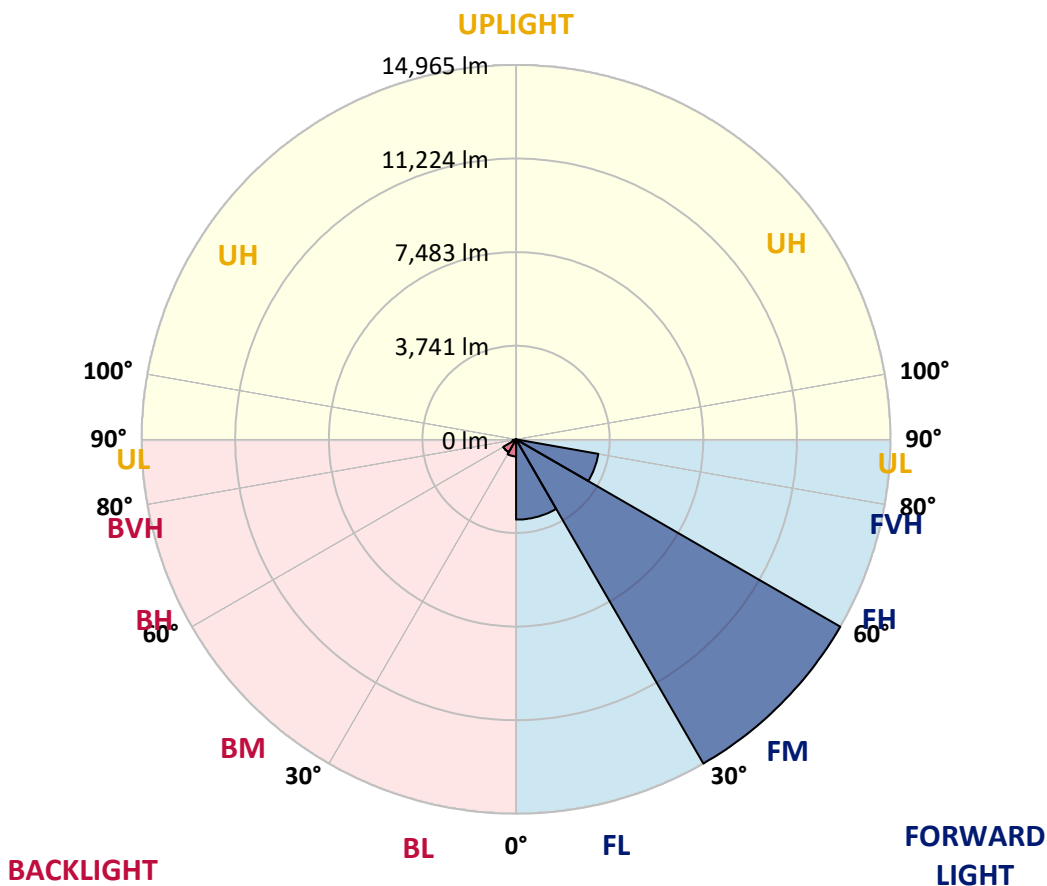
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3209.0	14.0			
FM (30°-60°)	14965.3	65.2			
FH (60°-80°)	3337.1	14.5			G2/5000
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	680.4	3.0	B2/1000		
BM (30°-60°)	591.8	2.6	B1/1000		
BH (60°-80°)	142.0	0.6	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5
2.5°	6909.0	6875.6	6926.6	6867.8	6767.8	6683.4	6573.6	6534.4	6357.9	6191.2	6030.4
5°	7748.3	7758.1	7742.4	7660.1	7518.9	7362.0	7140.4	7091.4	6783.5	6465.8	6122.6
7.5°	7956.2	7950.3	7983.7	8015.0	7991.5	7913.1	7671.8	7622.8	7240.4	6763.8	6263.8
10°	7314.9	7318.8	7387.5	7599.3	7862.1	8134.7	8097.4	8069.9	7695.4	7101.2	6420.7
12.5°	6408.9	6444.2	6516.7	6818.8	7263.9	7883.6	8268.0	8295.5	8113.1	7471.8	6605.0
15°	6016.7	6024.5	6083.3	6265.7	6597.2	7362.0	8195.5	8271.9	8462.2	7844.4	6805.0
17.5°	6006.9	6016.7	6042.2	6122.6	6338.3	6952.1	7962.1	8095.4	8725.0	8244.5	7044.3
20°	6375.5	6369.7	6352.0	6308.9	6403.0	6816.8	7746.4	7893.4	8868.1	8634.7	7285.5
22.5°	7044.3	7036.4	6958.0	6779.5	6703.1	6940.3	7640.5	7773.8	8954.4	8981.9	7483.6
25°	7815.0	7869.9	7722.8	7452.2	7263.9	7256.1	7734.6	7828.7	9028.9	9289.7	7618.9
27.5°	8660.2	8677.9	8552.4	8248.4	7975.8	7762.0	8007.2	8077.8	9111.3	9564.3	7695.4
30°	9587.8	9582.0	9438.8	9085.8	8754.4	8446.5	8466.1	8493.5	9303.5	9878.1	7779.7
32.5°	10746.8	10772.3	10517.4	10036.9	9638.8	9213.3	9066.2	9070.1	9650.6	10282.1	7907.2
35°	12321.6	12258.9	11921.6	11237.1	10558.6	10099.7	9848.7	9827.1	10186.0	10825.3	8128.8
37.5°	13821.9	13827.7	13474.7	12721.7	11864.7	11141.0	10786.1	10727.2	10939.0	11578.4	8497.5
40°	14863.2	14882.8	14735.7	14341.6	13433.6	12409.9	11888.2	11827.4	11915.7	12531.5	8979.9
42.5°	15414.3	15469.2	15510.4	15602.5	14914.2	13994.4	13192.3	13186.5	13094.3	13617.9	9538.8
45°	15435.8	15518.2	15769.2	16398.8	16477.2	15802.6	14929.9	14798.5	14443.5	14780.8	10038.9
47.5°	14582.8	14773.0	15306.4	16553.7	17377.3	17600.9	16736.1	16655.7	15659.4	15700.6	10413.5
50°	12594.2	12792.3	13774.8	15759.4	17604.8	19028.6	18718.7	18552.0	16675.3	16308.5	10593.9
52.5°	10554.7	10735.1	11401.9	13868.9	16661.5	19477.7	20389.6	20191.5	17587.2	16520.3	10519.4
55°	7344.3	7585.5	8236.6	10366.4	14488.6	18603.0	20942.6	20901.4	18401.0	16387.0	10403.7
57.5°	3600.6	3839.8	4489.0	6391.2	10733.1	16241.9	20097.4	20315.1	18887.4	16243.8	10309.5
60°	1504.2	1602.2	1825.8	2804.4	6004.9	12274.5	18189.2	18491.2	18589.3	16049.7	10299.7
62.5°	872.7	888.4	911.9	1162.9	2335.7	7036.4	15088.7	15518.2	17022.4	15792.8	10144.8
65°	658.9	664.8	655.0	713.8	964.9	2669.1	10901.8	11486.2	14208.2	14788.7	9532.9
67.5°	541.3	541.3	515.8	527.5	606.0	1000.2	6018.6	6834.4	10513.5	12154.9	7871.9
70°	431.4	441.2	429.5	413.8	433.4	553.0	2141.5	2655.3	6122.6	7177.6	4590.9
72.5°	327.5	327.5	347.1	335.3	321.6	347.1	747.2	839.4	2457.3	2992.6	1657.1
75°	253.0	260.8	274.6	262.8	243.2	205.9	358.9	380.5	741.3	696.2	370.6
77.5°	129.4	131.4	174.5	192.2	180.4	125.5	156.9	172.6	241.2	215.7	137.3
80°	78.4	82.4	98.1	151.0	119.6	66.7	64.7	68.6	113.7	98.1	56.9
82.5°	33.3	35.3	54.9	54.9	49.0	25.5	25.5	25.5	54.9	51.0	23.5
85°	0.0	0.0	9.8	7.8	7.8	9.8	9.8	9.8	13.7	19.6	11.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.9	5.9
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°	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5
2.5°	5926.5	5800.9	5632.3	5479.3	5273.4	5157.7	4996.9	4865.5	4753.7	4718.4	4702.7
5°	5928.4	5712.7	5351.9	4991.0	4547.8	4198.7	3839.8	3555.5	3322.1	3247.6	3228.0
7.5°	5967.6	5649.9	5065.5	4410.5	3669.2	3057.4	2510.2	2019.9	1792.4	1716.0	1700.3
10°	6020.6	5597.0	4734.1	3714.3	2649.5	1863.0	1319.8	1006.0	857.0	774.6	786.4
12.5°	6089.2	5553.8	4367.4	2961.3	1753.2	1023.7	725.6	607.9	576.6	560.9	553.0
15°	6181.4	5502.9	3912.4	2214.1	1074.7	658.9	558.9	527.5	515.8	507.9	506.0
17.5°	6275.5	5444.0	3449.6	1557.1	713.8	547.1	502.0	486.4	478.5	472.6	470.7
20°	6375.5	5344.0	2906.4	1072.7	562.8	492.2	462.8	445.2	435.4	425.6	423.6
22.5°	6418.7	5183.2	2386.7	751.1	500.1	453.0	415.8	394.2	382.4	374.6	374.6
25°	6377.5	4922.4	1849.3	570.7	455.0	409.9	372.6	349.1	339.3	331.4	331.4
27.5°	6267.7	4587.0	1349.2	472.6	405.9	364.8	329.5	307.9	300.0	296.1	296.1
30°	6146.1	4163.4	951.1	405.9	351.0	317.7	288.3	274.6	272.6	268.7	268.7
32.5°	6042.2	3767.3	655.0	356.9	309.9	276.5	256.9	251.0	253.0	249.1	251.0
35°	5985.3	3379.0	486.4	317.7	276.5	245.1	235.3	235.3	235.3	233.4	233.4
37.5°	6008.8	2996.6	396.1	290.2	247.1	223.6	213.8	217.7	221.6	221.6	221.6
40°	6126.5	2657.3	351.0	264.7	221.6	204.0	196.1	202.0	207.9	211.8	211.8
42.5°	6275.5	2382.7	317.7	243.2	204.0	184.3	180.4	186.3	192.2	196.1	196.1
45°	6369.7	2106.2	284.4	215.7	186.3	162.8	162.8	170.6	168.7	170.6	170.6
47.5°	6412.8	1886.6	251.0	186.3	158.8	141.2	143.2	147.1	143.2	147.1	147.1
50°	6306.9	1665.0	221.6	154.9	131.4	123.5	127.5	125.5	125.5	133.4	133.4
52.5°	6112.8	1500.2	196.1	131.4	111.8	109.8	113.7	105.9	107.9	107.9	105.9
55°	5969.6	1406.1	174.5	113.7	96.1	98.1	96.1	82.4	74.5	66.7	64.7
57.5°	5899.0	1368.9	158.8	102.0	86.3	86.3	78.4	56.9	43.1	33.3	29.4
60°	5883.3	1323.7	143.2	88.2	76.5	72.6	56.9	33.3	21.6	15.7	13.7
62.5°	5734.3	1213.9	129.4	70.6	66.7	58.8	35.3	19.6	11.8	7.8	5.9
65°	5246.0	998.2	115.7	54.9	51.0	43.1	21.6	11.8	5.9	2.0	0.0
67.5°	4173.2	708.0	102.0	41.2	35.3	27.5	13.7	7.8	2.0	0.0	0.0
70°	2406.3	382.4	84.3	29.4	23.5	17.6	9.8	3.9	0.0	0.0	0.0
72.5°	804.1	178.5	64.7	19.6	17.6	13.7	5.9	2.0	0.0	0.0	0.0
75°	176.5	105.9	43.1	13.7	11.8	9.8	3.9	0.0	0.0	0.0	0.0
77.5°	66.7	74.5	21.6	9.8	7.8	5.9	2.0	0.0	0.0	0.0	0.0
80°	25.5	49.0	9.8	5.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	19.6	5.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	9.8	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.0	2.0	2.0	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)