

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: P633548

Luminaire Tested: GWS-SA2E-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8509.5 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

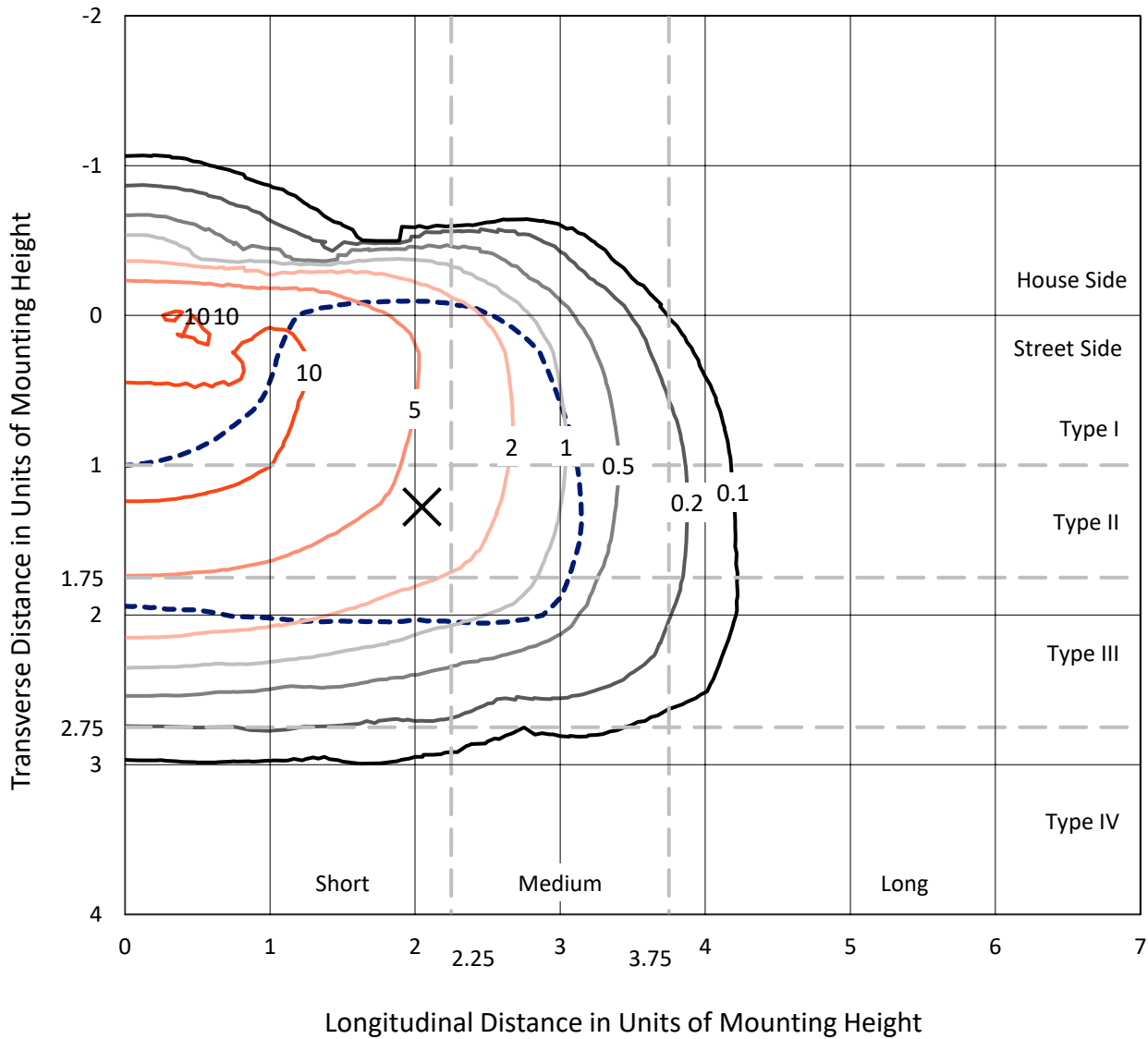
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

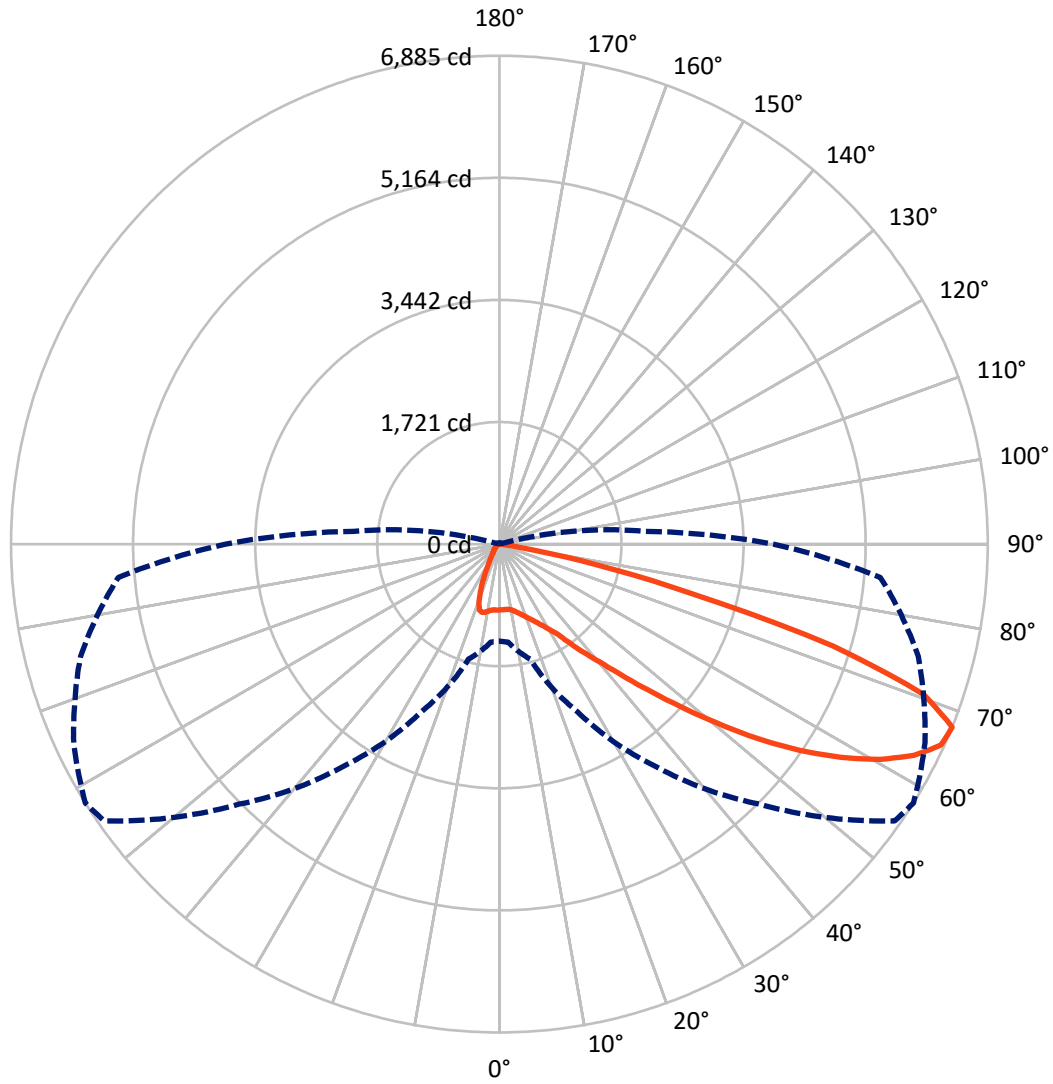
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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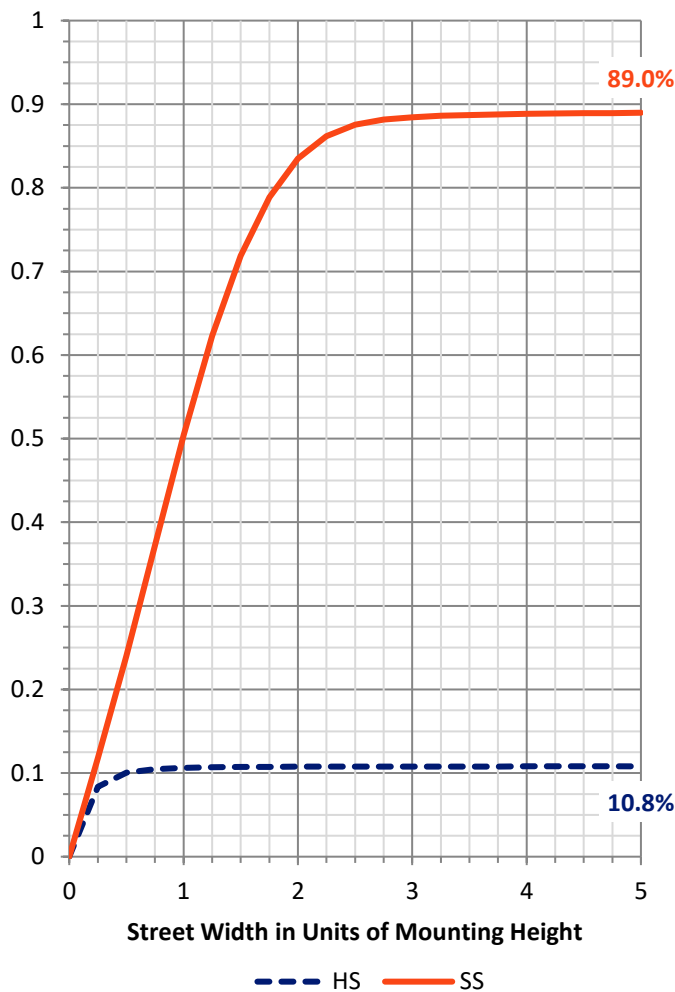
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.4	0.0	928.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	7581.1	0.0	7581.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	8509.5	0.0	8509.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	1.0
10°-20°	244.6	2.9
20°-30°	426.9	5.0
30°-40°	762.4	9.0
40°-50°	1393.5	16.4
50°-60°	2317.6	27.2
60°-70°	2517.3	29.6
70°-80°	739.1	8.7
80°-90°	21.0	0.2
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°	8509.5	100.0
0°-180°	8509.5	100.0

Coefficient of Utilization



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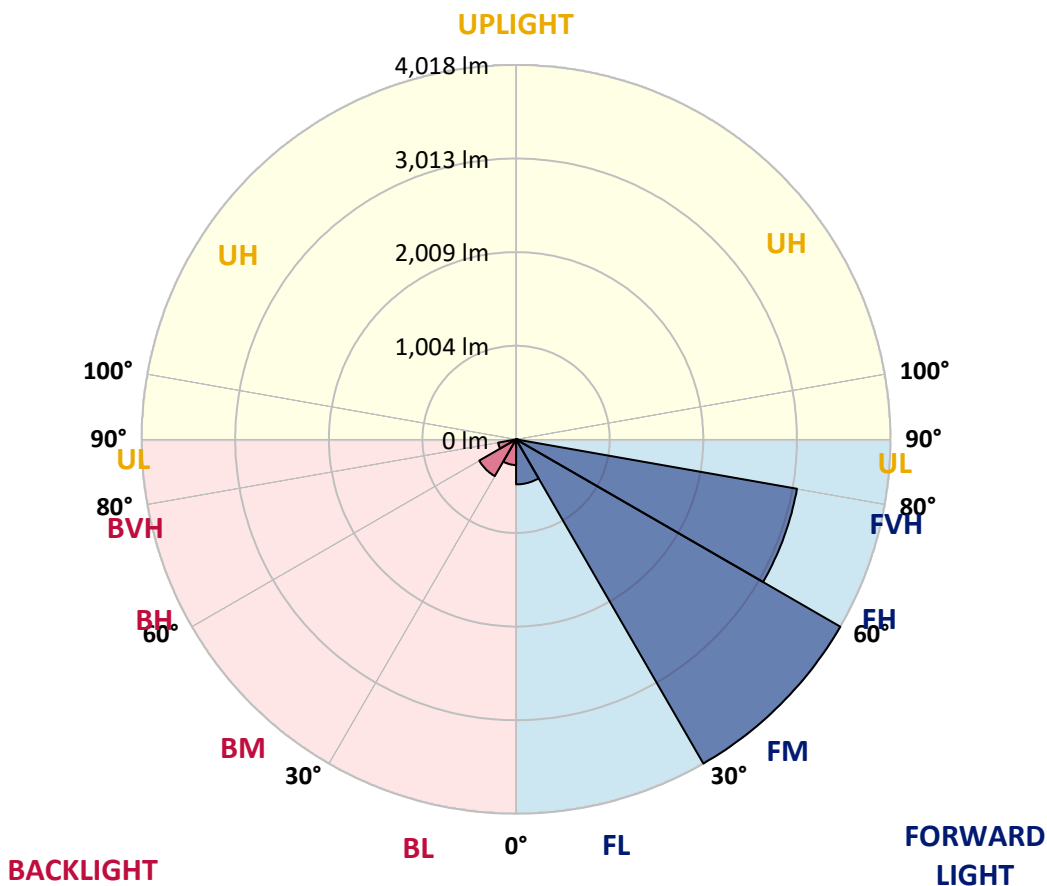
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.2	5.7			
FM (30°-60°)	4017.5	47.2			
FH (60°-80°)	3060.4	36.0			G2/5000
FVH (80°-90°)	20.0	0.2			G1/100
BL (0°-30°)	275.4	3.2	B1/500		
BM (30°-60°)	456.0	5.4	B1/1000		
BH (60°-80°)	196.0	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	909.8	908.2	908.2	914.8	915.6	919.0	926.5	927.3	931.4	929.8	924.0
5°	862.5	863.3	868.3	879.9	889.9	902.4	920.6	924.8	933.9	938.9	935.6
7.5°	818.4	819.3	826.7	845.0	864.1	889.1	919.0	927.3	945.6	958.9	959.7
10°	801.8	801.0	808.5	829.2	854.2	889.1	932.3	943.1	970.5	993.8	997.9
12.5°	806.8	806.0	813.4	832.6	860.0	904.0	955.5	970.5	1005.4	1041.1	1048.6
15°	826.7	825.9	830.9	846.7	876.6	922.3	985.4	1007.9	1051.9	1095.1	1106.8
17.5°	886.6	882.4	877.4	879.1	896.5	943.9	1023.7	1051.1	1105.9	1157.4	1167.4
20°	992.9	982.1	968.8	951.4	943.1	975.5	1067.7	1099.3	1165.7	1224.7	1226.4
22.5°	1153.3	1149.1	1118.4	1067.7	1032.0	1032.8	1119.2	1155.8	1237.2	1302.0	1292.9
25°	1376.8	1374.3	1326.9	1243.9	1150.8	1119.2	1184.9	1222.2	1322.0	1390.9	1361.8
27.5°	1654.3	1636.9	1581.2	1469.0	1330.3	1231.4	1267.9	1301.2	1411.7	1476.5	1421.7
30°	1896.1	1896.9	1844.6	1727.4	1571.2	1400.1	1369.3	1398.4	1494.0	1562.1	1495.6
32.5°	2128.8	2136.2	2078.9	1973.4	1802.2	1620.2	1514.7	1519.7	1599.5	1673.4	1592.8
35°	2344.8	2350.6	2310.7	2221.0	2061.5	1850.4	1717.5	1715.0	1758.2	1833.8	1728.3
37.5°	2586.6	2592.4	2553.3	2472.8	2323.2	2113.8	1947.6	1944.3	1961.7	2023.2	1902.8
40°	2844.2	2855.0	2811.8	2743.6	2600.7	2423.7	2215.2	2185.3	2167.8	2240.1	2128.8
42.5°	3105.1	3121.7	3106.7	3038.6	2916.4	2770.2	2562.5	2516.0	2478.6	2569.1	2451.1
45°	3429.1	3449.1	3442.4	3390.1	3295.3	3176.5	2980.4	2926.4	2909.0	2992.9	2852.5
47.5°	3740.7	3762.3	3786.4	3774.8	3707.5	3652.6	3434.9	3404.2	3399.2	3488.9	3271.2
50°	3972.5	3992.5	4084.7	4151.2	4196.9	4185.2	3996.6	3950.9	3943.4	4000.8	3713.3
52.5°	4138.7	4157.8	4284.9	4492.7	4660.5	4751.9	4561.6	4551.7	4510.9	4491.0	4127.1
55°	4267.5	4294.1	4427.9	4741.9	5080.1	5282.8	5164.0	5128.3	5023.6	4908.9	4510.9
57.5°	4293.2	4304.0	4492.7	4916.4	5405.8	5734.0	5734.0	5671.7	5469.8	5311.1	4954.6
60°	4062.3	4095.5	4350.6	4902.3	5545.4	6029.0	6206.8	6163.6	5891.1	5695.8	5381.7
62.5°	3549.6	3587.0	3897.7	4564.1	5405.8	6089.6	6564.9	6558.3	6250.8	6014.0	5735.7
65°	2722.0	2749.4	3020.3	3818.0	4815.9	5856.2	6820.8	6839.1	6535.0	6224.3	5857.8
67.5°	1367.7	1386.8	1679.2	2608.2	3817.1	5184.0	6803.4	6884.8	6621.4	6112.9	5391.7
70°	477.8	496.9	634.8	1119.2	2323.2	3958.4	6215.1	6348.1	6113.7	5218.0	3977.5
72.5°	163.7	172.8	263.4	415.4	904.0	2346.5	4726.1	4926.4	4506.8	3503.1	2285.8
75°	93.1	98.9	141.3	225.2	378.9	771.9	2681.3	2804.3	2627.3	1909.4	940.6
77.5°	63.1	68.1	88.1	128.0	209.4	248.4	1093.5	1376.8	1200.6	623.2	240.1
80°	37.4	40.7	54.0	75.6	107.2	96.4	234.3	311.6	401.3	186.1	72.3
82.5°	17.4	19.9	34.9	49.9	54.0	40.7	69.0	83.9	113.0	91.4	29.9
85°	0.0	0.0	11.6	20.8	19.9	11.6	19.1	20.8	30.7	45.7	11.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5	5.0	9.1	5.0
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°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	930.6	924.8	931.4	928.1	931.4	930.6	924.0	919.8	919.8	912.3	909.8
5°	942.2	936.4	938.1	930.6	928.9	924.8	916.5	913.2	913.2	905.7	903.2
7.5°	968.0	958.9	957.2	942.2	935.6	924.0	909.0	903.2	902.4	894.9	892.4
10°	1008.7	997.9	990.4	971.3	952.2	928.9	897.4	870.8	855.8	835.9	834.2
12.5°	1058.6	1045.3	1033.6	1004.6	973.0	920.6	827.6	730.4	670.5	623.2	626.5
15°	1114.2	1101.8	1083.5	1039.5	974.6	838.4	643.9	494.4	421.3	382.2	380.6
17.5°	1174.9	1156.6	1126.7	1066.9	922.3	640.6	418.8	295.8	257.6	244.3	241.0
20°	1231.4	1209.0	1171.6	1072.7	771.1	433.7	261.7	229.3	222.7	218.5	218.5
22.5°	1291.2	1263.0	1207.3	1027.8	573.3	277.5	222.7	215.2	210.2	204.4	203.6
25°	1351.9	1315.3	1239.7	910.7	375.6	218.5	208.6	200.2	191.1	182.0	179.5
27.5°	1403.4	1356.0	1264.6	736.2	241.0	196.9	190.3	176.2	163.7	153.7	152.1
30°	1464.9	1404.2	1275.4	538.4	189.4	173.7	163.7	148.7	133.8	123.8	120.5
32.5°	1547.1	1480.7	1258.8	350.6	167.8	152.9	137.1	119.6	104.7	93.9	92.2
35°	1675.1	1596.2	1182.4	223.5	152.1	132.1	113.0	94.7	82.3	73.9	72.3
37.5°	1831.3	1758.2	1056.9	167.8	136.3	114.7	92.2	74.8	65.6	59.8	58.2
40°	2063.1	1960.9	901.5	147.1	120.5	97.2	75.6	61.5	54.8	49.9	48.2
42.5°	2363.9	2200.2	722.9	133.8	105.5	81.4	61.5	50.7	44.9	41.5	40.7
45°	2715.4	2433.7	534.3	120.5	91.4	67.3	50.7	41.5	37.4	34.9	34.1
47.5°	3075.2	2638.1	368.9	106.4	78.1	55.7	42.4	35.7	32.4	29.1	28.3
50°	3459.0	2810.9	251.8	92.2	66.5	45.7	36.6	32.4	28.3	25.8	24.9
52.5°	3740.7	2874.9	175.3	79.8	56.5	39.1	32.4	29.1	25.8	22.4	21.6
55°	4000.8	2873.2	132.9	67.3	48.2	34.1	29.1	25.8	22.4	19.9	19.1
57.5°	4260.0	2850.8	104.7	57.3	41.5	30.7	25.8	22.4	20.8	17.4	16.6
60°	4427.9	2766.1	81.4	48.2	35.7	26.6	22.4	19.9	17.4	15.0	14.1
62.5°	4516.8	2648.1	62.3	38.2	29.1	23.3	19.9	17.4	15.0	12.5	11.6
65°	4396.3	2438.7	49.0	29.9	22.4	19.9	16.6	14.1	11.6	9.1	8.3
67.5°	3862.0	2056.5	38.2	24.1	17.4	15.0	14.1	11.6	8.3	6.6	5.8
70°	2729.5	1408.4	29.9	18.3	13.3	11.6	10.8	9.1	6.6	5.0	4.2
72.5°	1498.1	710.4	21.6	13.3	10.0	9.1	8.3	7.5	5.8	4.2	4.2
75°	576.6	195.3	15.8	9.1	6.6	6.6	5.8	5.8	5.0	3.3	3.3
77.5°	150.4	58.2	10.0	5.8	4.2	4.2	4.2	3.3	3.3	2.5	2.5
80°	48.2	19.1	5.8	4.2	3.3	2.5	2.5	1.7	2.5	1.7	1.7
82.5°	15.8	6.6	3.3	3.3	2.5	1.7	1.7	0.8	0.8	0.0	0.0
85°	5.8	3.3	2.5	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0
87.5°	3.3	1.7	1.7	1.7	1.7	0.8	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)