

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: P630542

Luminaire Tested: GWS-SA1D-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3627.9 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

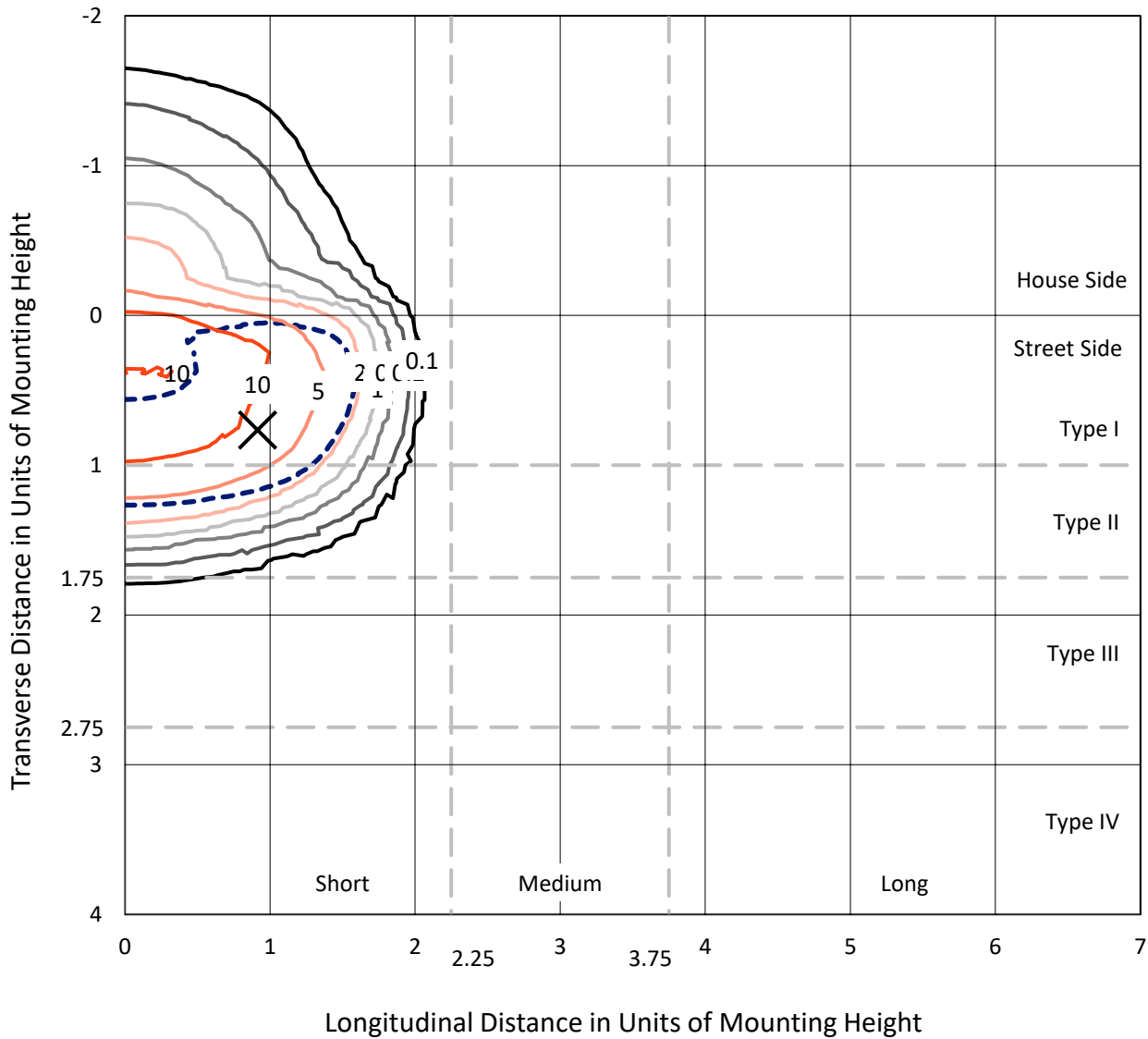
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

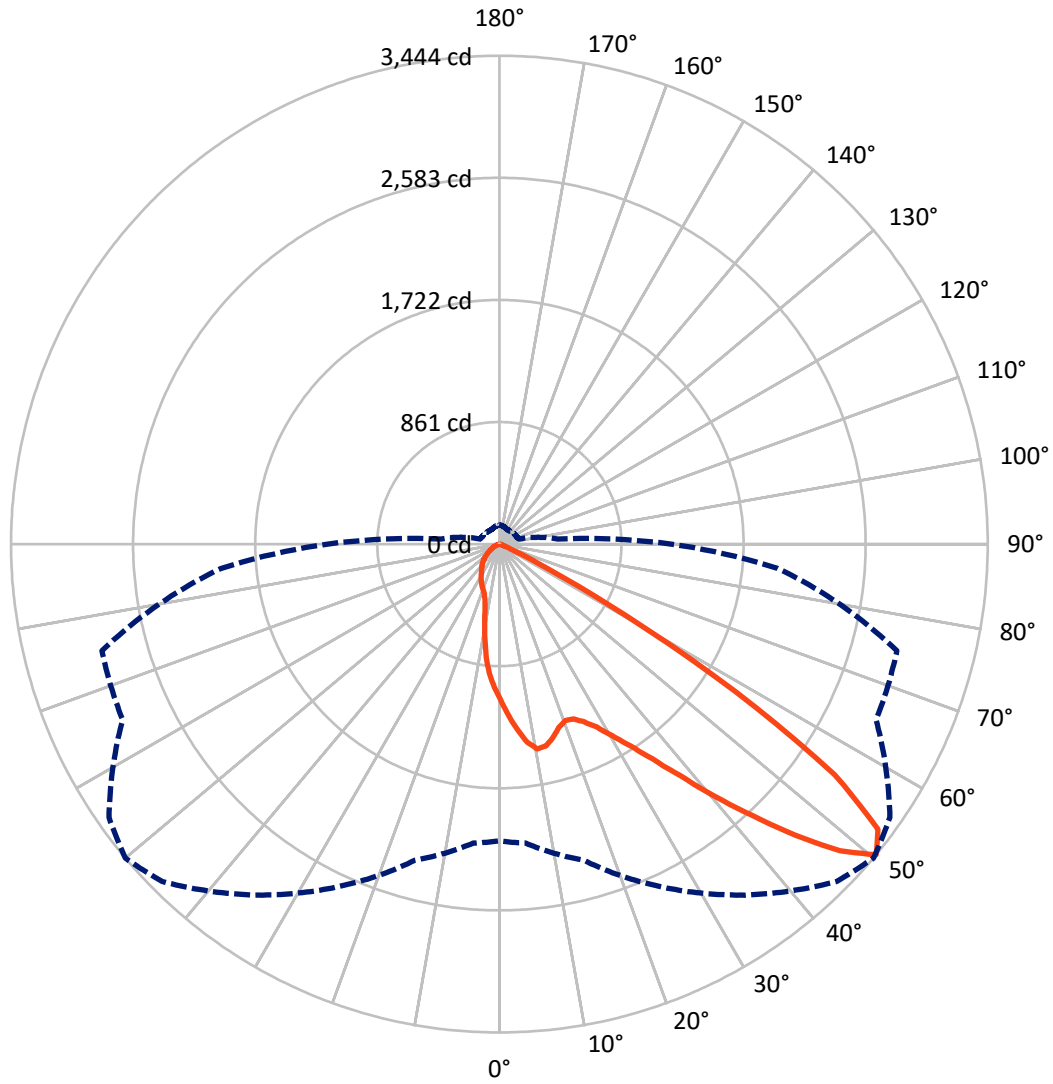
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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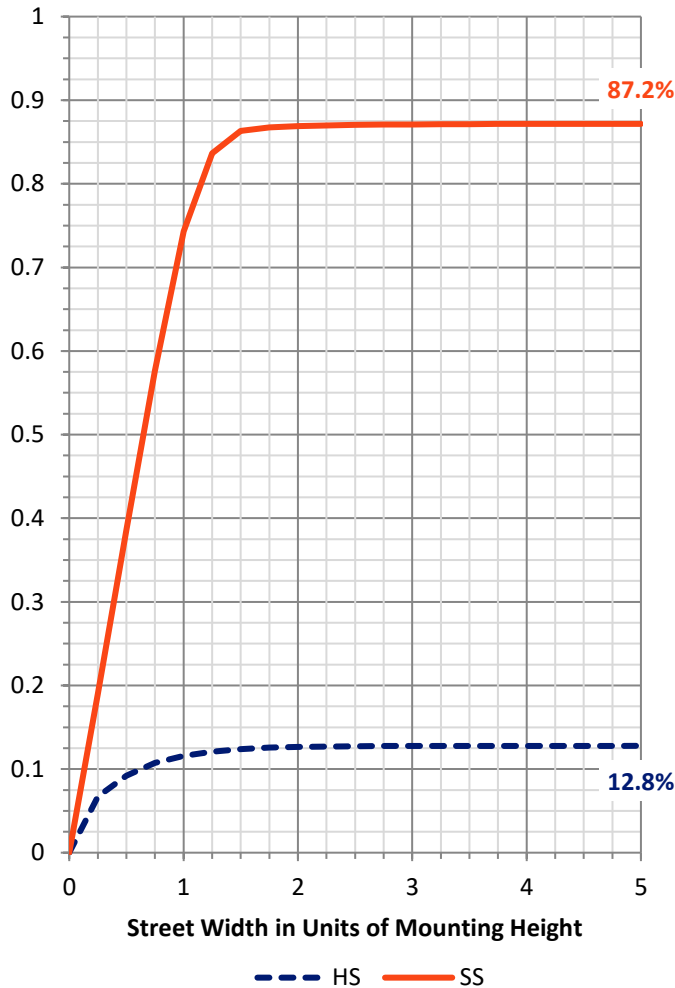
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	466.1	0.0	466.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3161.8	0.0	3161.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	3627.9	0.0	3627.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	2.8
10°-20°	263.1	7.3
20°-30°	434.1	12.0
30°-40°	716.4	19.7
40°-50°	1133.6	31.2
50°-60°	858.2	23.7
60°-70°	107.4	3.0
70°-80°	12.1	0.3
80°-90°	0.9	0.0
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°	3627.9	100.0
0°-180°	3627.9	100.0

Coefficient of Utilization



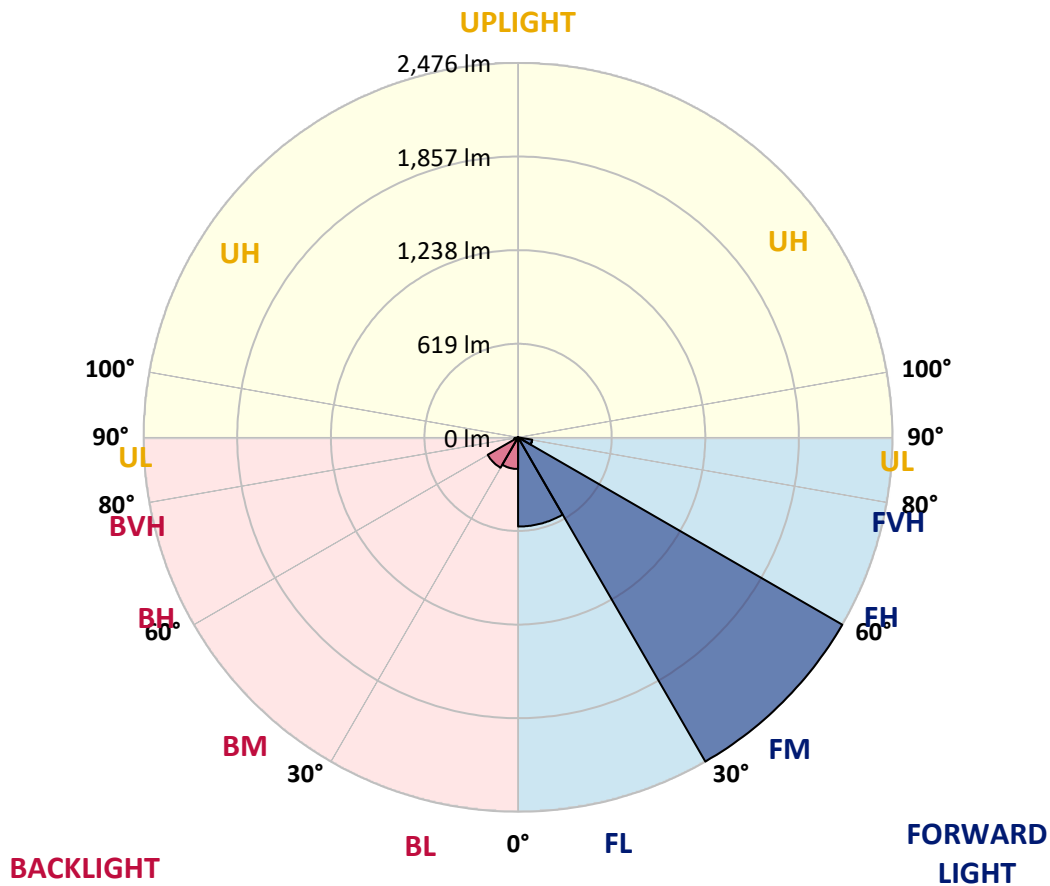
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.9	16.3			
FM (30°-60°)	2476.4	68.3			
FH (60°-80°)	95.0	2.6			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	209.2	5.8	B1/500		
BM (30°-60°)	231.8	6.4	B1/1000		
BH (60°-80°)	24.6	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1252.4	1262.4	1259.7	1246.6	1232.4	1222.4	1206.8	1202.0	1166.8	1142.3	1116.4
5°	1403.7	1406.8	1403.3	1387.4	1362.6	1338.8	1313.2	1298.4	1239.3	1186.1	1131.9
7.5°	1439.9	1436.1	1442.7	1450.6	1447.2	1436.8	1409.9	1393.7	1323.2	1236.5	1154.4
10°	1326.7	1318.0	1342.6	1383.6	1426.8	1475.5	1468.6	1470.0	1405.1	1300.1	1183.7
12.5°	1176.5	1173.0	1191.3	1239.0	1323.6	1434.1	1460.6	1505.2	1480.0	1368.8	1217.2
15°	1110.5	1112.2	1123.3	1153.3	1214.1	1351.5	1415.4	1495.9	1547.0	1435.4	1254.2
17.5°	1120.5	1126.7	1126.4	1136.4	1173.4	1283.5	1358.1	1466.5	1598.8	1512.1	1296.6
20°	1188.5	1194.8	1185.4	1177.8	1190.3	1266.2	1328.0	1436.8	1633.6	1589.4	1341.5
22.5°	1290.4	1297.7	1275.6	1253.8	1245.9	1294.6	1339.4	1424.7	1660.2	1660.2	1381.6
25°	1413.7	1423.7	1389.5	1350.8	1328.7	1354.3	1388.1	1452.0	1687.5	1723.8	1408.8
27.5°	1551.5	1551.8	1522.5	1478.9	1437.5	1440.6	1461.0	1513.5	1717.6	1792.1	1430.3
30°	1706.5	1707.5	1668.5	1616.4	1564.2	1550.1	1567.3	1607.1	1780.1	1878.1	1460.0
32.5°	1906.8	1911.6	1855.7	1779.0	1711.3	1684.7	1694.8	1736.5	1879.5	1985.9	1504.5
35°	2177.5	2182.7	2100.2	1999.0	1891.2	1851.2	1861.2	1903.3	2023.5	2138.8	1575.6
37.5°	2444.8	2451.7	2368.1	2273.8	2126.0	2059.8	2070.1	2110.2	2239.7	2350.2	1689.6
40°	2629.5	2638.8	2612.9	2549.4	2412.3	2325.3	2337.7	2352.2	2477.6	2602.9	1837.4
42.5°	2726.9	2740.0	2751.1	2783.5	2711.3	2638.5	2617.4	2618.5	2719.6	2860.5	1991.0
45°	2732.8	2745.5	2802.2	2927.5	2982.4	2967.2	2928.9	2903.0	2904.4	3032.1	2087.0
47.5°	2542.8	2566.7	2672.7	2918.2	3124.7	3250.7	3231.4	3169.9	2982.1	3043.5	2076.7
50°	2092.9	2116.4	2309.1	2662.3	3021.1	3364.0	3443.7	3361.2	2931.3	2901.6	1970.0
52.5°	1520.0	1522.5	1647.5	2060.1	2601.2	3155.1	3342.9	3335.0	2854.0	2729.6	1824.3
55°	722.0	713.4	853.9	1162.6	1799.0	2551.8	2868.5	2958.2	2744.1	2605.3	1711.3
57.5°	210.3	214.4	276.9	453.7	899.9	1630.9	1964.4	2131.6	2252.4	2141.9	1327.4
60°	94.3	94.6	105.3	138.1	299.7	758.6	1015.5	1222.4	1346.7	1247.9	658.5
62.5°	68.4	68.7	72.9	78.0	101.9	256.9	380.9	507.6	516.9	338.4	166.8
65°	57.0	57.0	57.7	57.7	61.1	91.9	115.7	149.2	125.7	93.2	65.3
67.5°	45.9	46.3	47.0	47.0	45.9	45.9	49.7	54.6	58.4	72.2	60.1
70°	35.9	35.6	35.6	35.9	34.9	29.7	32.1	36.6	40.1	56.3	52.1
72.5°	28.0	28.3	28.0	26.6	24.2	17.6	19.0	23.8	25.6	35.2	35.2
75°	21.1	21.4	20.0	15.2	10.0	5.5	7.3	11.7	14.8	17.3	12.8
77.5°	2.8	2.8	2.1	2.1	1.7	2.1	2.1	2.8	4.1	4.1	3.1
80°	0.3	0.3	0.3	0.7	1.0	1.4	1.4	1.4	1.4	1.7	1.7
82.5°	0.3	0.3	0.3	0.3	1.0	1.0	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.0	1.4	1.4	1.4
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°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1100.8	1080.8	1056.6	1040.1	1016.6	1001.0	978.9	964.1	951.3	941.3	946.8
5°	1101.2	1069.4	1020.0	977.9	932.0	889.9	844.6	809.1	776.9	762.4	770.4
7.5°	1108.1	1062.5	986.9	912.0	823.9	736.9	655.4	589.1	556.3	540.7	545.6
10°	1121.6	1059.4	949.9	825.6	682.7	563.9	484.8	439.9	421.6	412.0	413.7
12.5°	1134.0	1057.3	901.9	712.0	538.7	437.5	396.4	390.2	394.0	394.3	394.0
15°	1150.9	1053.5	842.5	595.3	430.9	378.1	379.1	388.1	397.1	399.9	399.2
17.5°	1168.9	1047.7	765.9	483.4	365.7	360.8	372.9	385.0	394.0	395.4	395.7
20°	1187.5	1035.6	678.5	394.7	335.3	347.7	361.2	370.2	376.7	378.8	379.5
22.5°	1196.1	1010.0	577.7	331.1	314.9	331.5	341.5	353.2	355.3	347.7	349.1
25°	1191.7	966.9	479.3	288.3	294.5	311.1	326.0	320.1	311.5	305.9	307.7
27.5°	1177.5	909.5	382.9	256.9	272.8	293.9	295.6	289.0	287.6	283.2	284.5
30°	1162.3	843.6	308.0	231.7	250.7	272.8	267.6	270.0	270.4	265.2	266.9
32.5°	1153.0	774.5	245.2	214.8	236.5	240.7	251.0	255.9	256.2	244.1	246.2
35°	1156.1	706.5	207.5	201.0	223.4	222.4	236.9	239.6	219.6	203.0	204.8
37.5°	1181.3	643.7	186.1	190.3	200.6	208.6	219.6	201.3	196.8	189.2	190.3
40°	1228.3	590.1	173.3	183.7	185.1	197.9	180.9	183.4	183.7	178.9	179.9
42.5°	1283.2	545.6	165.7	179.9	176.5	178.5	161.6	166.4	171.6	169.5	169.9
45°	1310.8	502.1	159.2	166.8	167.8	148.1	144.3	149.5	156.1	157.1	157.5
47.5°	1286.3	460.6	152.3	147.8	154.7	135.0	130.5	132.3	139.8	144.0	144.7
50°	1211.3	413.0	141.9	130.9	127.1	121.2	117.1	117.4	126.0	133.3	134.7
52.5°	1106.0	363.3	125.0	110.8	102.2	106.7	107.7	105.7	113.6	120.9	122.2
55°	1003.8	301.1	99.1	90.1	82.2	91.9	94.6	91.9	94.3	99.1	99.4
57.5°	706.8	170.2	76.0	74.6	68.0	78.7	83.2	79.1	74.9	78.0	78.7
60°	327.7	89.1	58.4	58.4	56.6	67.7	75.3	69.4	61.5	62.8	63.9
62.5°	102.6	56.3	42.8	40.4	46.3	57.7	63.9	58.0	48.7	48.7	50.1
65°	58.0	48.3	33.8	31.1	37.6	46.3	50.1	43.9	35.6	34.9	34.9
67.5°	53.9	45.9	30.0	25.2	26.6	29.7	31.1	26.9	24.5	24.2	24.5
70°	44.5	38.3	24.2	17.3	16.2	15.9	16.6	15.5	14.8	15.2	16.2
72.5°	27.6	23.1	15.2	10.4	9.0	8.6	8.6	8.6	8.3	8.3	8.3
75°	10.0	8.6	6.9	5.2	4.5	4.1	4.1	4.5	4.1	3.8	3.5
77.5°	3.1	2.8	2.8	2.8	2.4	2.1	1.7	1.7	1.4	1.0	1.0
80°	1.7	1.7	1.7	1.7	1.4	1.4	1.0	0.7	0.3	0.3	0.0
82.5°	1.7	1.7	1.7	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	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)