

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: P637227

Luminaire Tested: GWS-SA4C-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12834.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

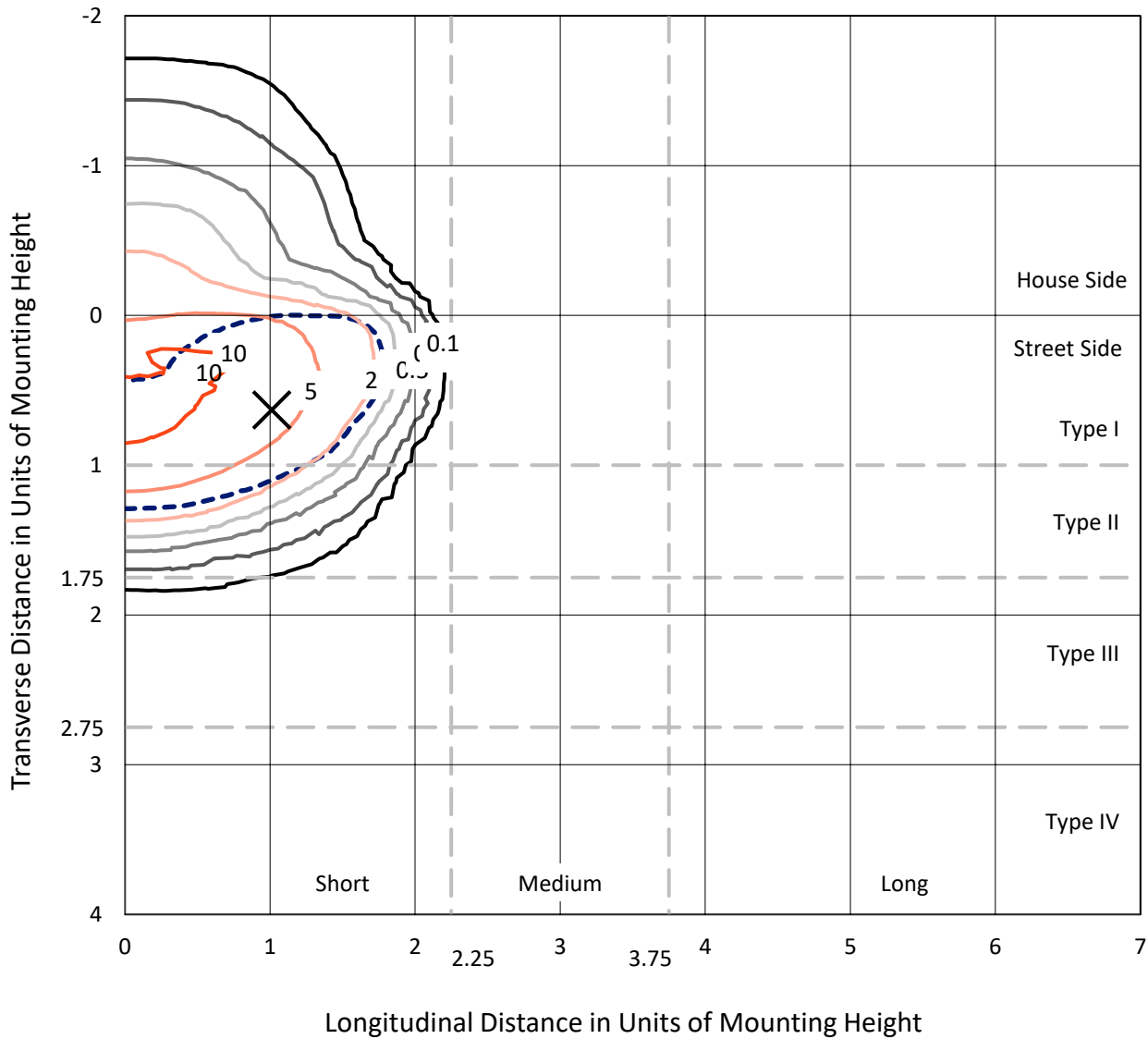
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

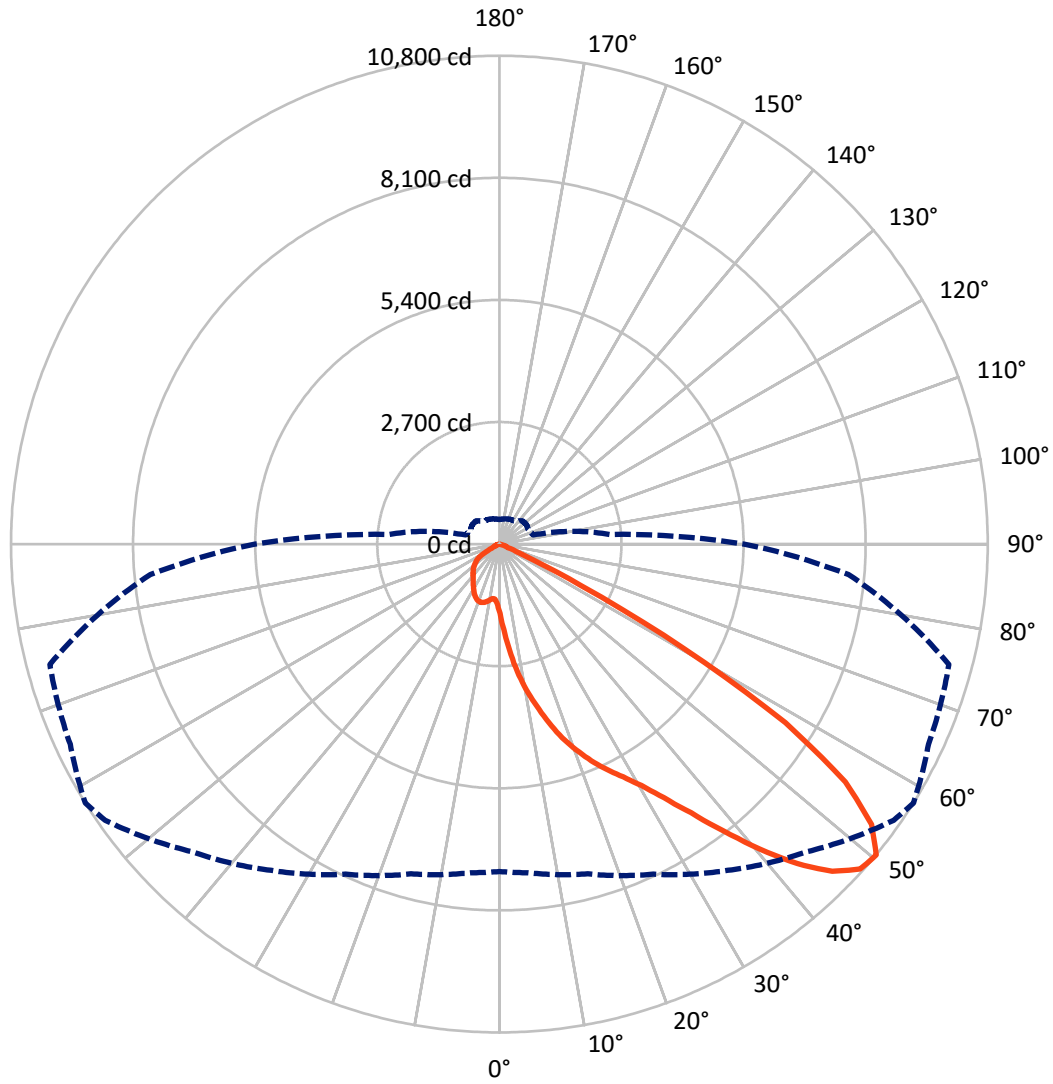
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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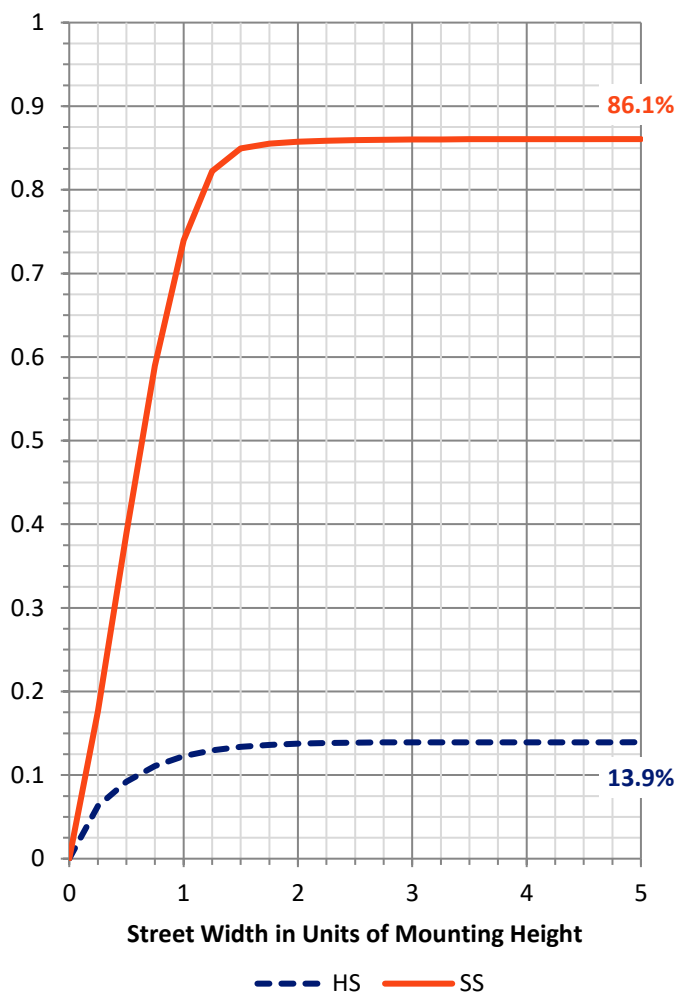
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1797.6	0.0	1797.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11036.6	0.0	11036.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	12834.2	0.0	12834.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	1.5
10°-20°	751.8	5.9
20°-30°	1521.4	11.9
30°-40°	2691.5	21.0
40°-50°	3923.6	30.6
50°-60°	3144.8	24.5
60°-70°	566.6	4.4
70°-80°	44.7	0.3
80°-90°	0.0	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°	12834.2	100.0
0°-180°	12834.2	100.0

Coefficient of Utilization



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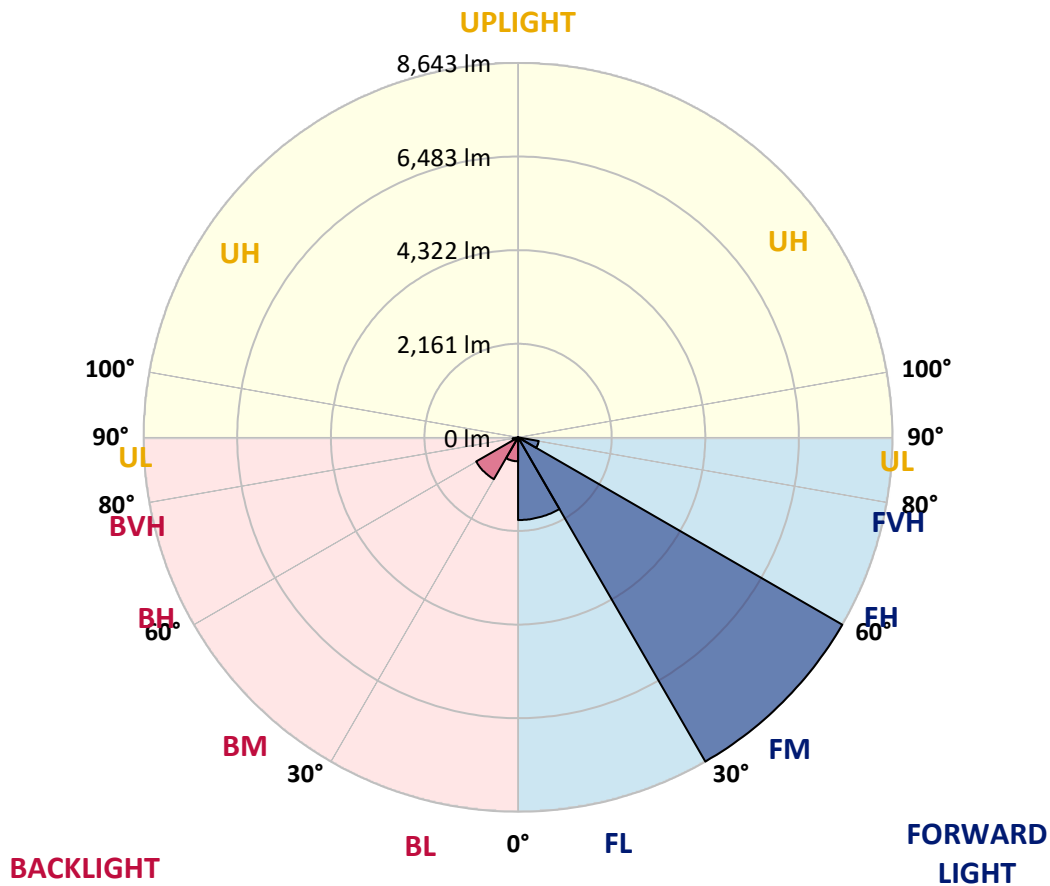
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.7	14.9			
FM (30°-60°)	8643.4	67.3			
FH (60°-80°)	483.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	553.4	4.3	B2/1000		
BM (30°-60°)	1116.4	8.7	B2/2500		
BH (60°-80°)	127.8	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0
2.5°	2268.7	2233.0	2212.4	2195.9	2123.2	2007.9	1932.4	1892.6	1826.7	1715.6	1619.5
5°	2960.4	2934.3	2886.3	2853.3	2760.0	2596.7	2427.9	2360.6	2211.0	1959.9	1734.8
7.5°	3418.8	3399.6	3381.7	3337.8	3250.0	3101.7	2915.1	2845.1	2614.5	2257.7	1888.5
10°	3771.5	3756.4	3735.8	3734.4	3665.8	3532.7	3350.1	3277.4	3027.6	2581.6	2069.6
12.5°	4081.7	4069.3	4065.2	4103.6	4059.7	3960.9	3763.2	3672.7	3407.8	2912.3	2270.0
15°	4294.4	4291.6	4309.5	4385.0	4409.7	4364.4	4198.3	4100.9	3796.2	3244.5	2491.0
17.5°	4391.8	4400.1	4434.4	4564.8	4674.6	4713.0	4585.3	4503.0	4181.8	3580.7	2727.1
20°	4557.9	4555.2	4575.7	4699.3	4833.8	4971.0	4932.6	4862.6	4571.6	3936.2	2989.2
22.5°	5025.9	4986.1	4942.2	4961.4	5009.4	5170.0	5241.4	5205.7	4973.7	4301.2	3259.6
25°	5745.1	5703.9	5562.5	5425.3	5334.7	5407.4	5504.9	5522.7	5373.1	4675.9	3542.3
27.5°	6508.1	6471.1	6311.9	6106.0	5846.6	5720.4	5793.1	5828.8	5765.6	5122.0	3842.9
30°	7223.2	7173.8	6999.5	6744.2	6443.6	6250.1	6167.8	6192.5	6229.5	5650.4	4195.6
32.5°	7843.5	7806.5	7597.9	7328.9	7039.3	6837.5	6645.4	6686.6	6777.1	6296.8	4647.1
35°	8369.2	8350.0	8129.0	7861.4	7555.3	7452.4	7287.7	7295.9	7386.5	7077.7	5197.5
37.5°	8826.2	8793.3	8592.9	8344.5	8101.6	8085.1	8039.8	8043.9	8090.6	7987.6	5830.2
40°	9114.4	9084.2	8941.5	8787.8	8614.8	8617.6	8852.3	8870.1	8816.6	8881.1	6498.5
42.5°	9222.8	9200.9	9124.0	9125.4	9107.6	9188.5	9629.1	9662.0	9469.9	9582.4	7069.5
45°	9034.8	9025.2	9030.7	9228.3	9442.4	9692.2	10264.5	10322.2	10050.4	10047.7	7515.5
47.5°	8428.2	8409.0	8569.6	8905.8	9401.3	9887.1	10648.8	10738.0	10456.7	10313.9	7795.5
50°	7239.7	7294.6	7548.5	8053.5	8807.0	9619.5	10644.7	10799.8	10471.8	10290.6	7748.8
52.5°	5244.1	5233.1	5789.0	6483.4	7400.2	8763.1	10079.2	10305.7	10105.3	10061.4	7644.5
55°	2853.3	2953.5	3328.2	4247.7	5392.3	7142.2	8787.8	9281.9	9513.8	9977.7	7832.6
57.5°	1048.5	1092.5	1327.2	1977.7	2854.7	4441.2	6712.6	7457.9	8174.3	9744.4	7801.0
60°	422.7	430.9	524.3	727.4	1199.5	2260.4	4026.8	4688.3	5363.5	7459.2	5986.6
62.5°	307.4	318.4	355.5	425.5	606.6	988.2	1736.1	2018.9	2206.9	3694.6	2949.4
65°	248.4	256.6	286.8	318.4	400.8	531.1	560.0	539.4	536.6	955.2	676.6
67.5°	205.9	214.1	236.1	258.0	288.2	264.9	192.1	201.7	164.7	163.3	133.1
70°	151.0	160.6	182.5	205.9	172.9	71.4	111.2	164.7	124.9	104.3	101.6
72.5°	113.9	120.8	141.4	134.5	50.8	27.4	74.1	119.4	96.1	76.9	75.5
75°	85.1	89.2	71.4	22.0	5.5	6.9	27.4	49.4	53.5	43.9	43.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	4.1	5.5	6.9	8.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0	1533.0
2.5°	1564.6	1506.9	1424.6	1356.0	1303.8	1253.0	1214.6	1176.2	1174.8	1155.6	1151.5
5°	1630.5	1526.2	1375.2	1266.8	1200.9	1161.1	1133.6	1119.9	1113.1	1106.2	1103.4
7.5°	1725.2	1575.6	1367.0	1251.7	1196.8	1170.7	1151.5	1143.2	1139.1	1133.6	1132.3
10°	1841.8	1646.9	1397.2	1280.5	1232.5	1207.8	1187.2	1174.8	1168.0	1158.3	1155.6
12.5°	1981.8	1734.8	1445.2	1328.5	1277.7	1244.8	1217.4	1199.5	1189.9	1177.6	1174.8
15°	2132.8	1829.5	1498.7	1372.4	1312.1	1269.5	1235.2	1207.8	1189.9	1174.8	1170.7
17.5°	2289.2	1925.5	1546.7	1402.6	1328.5	1277.7	1228.3	1191.3	1169.3	1150.1	1144.6
20°	2464.9	2024.4	1578.3	1408.1	1323.0	1255.8	1198.1	1151.5	1129.5	1103.4	1098.0
22.5°	2648.8	2116.3	1592.0	1395.8	1292.8	1214.6	1152.9	1104.8	1073.3	1045.8	1037.6
25°	2827.2	2198.7	1585.2	1361.5	1247.6	1157.0	1093.8	1044.4	1010.1	982.7	975.8
27.5°	3016.6	2267.3	1560.5	1310.7	1185.8	1093.8	1033.5	990.9	959.3	929.1	922.3
30°	3229.4	2330.4	1520.7	1248.9	1113.1	1029.3	982.7	953.9	919.5	888.0	878.4
32.5°	3486.0	2386.7	1463.0	1174.8	1048.5	973.1	947.0	925.0	885.2	852.3	845.4
35°	3779.7	2433.3	1390.3	1098.0	985.4	937.4	931.9	903.1	850.9	812.5	804.3
37.5°	4120.1	2478.6	1303.8	1022.5	938.8	920.9	922.3	872.9	809.7	763.1	757.6
40°	4486.5	2523.9	1207.8	956.6	896.2	911.3	899.0	829.0	726.0	680.7	675.2
42.5°	4868.1	2573.3	1110.3	894.8	860.5	874.2	856.4	741.1	667.0	643.7	640.9
45°	5212.6	2632.4	1004.6	833.1	824.8	820.7	790.5	671.1	639.6	623.1	621.7
47.5°	5461.0	2622.7	892.1	774.1	786.4	772.7	680.7	638.2	612.1	590.2	584.7
50°	5415.7	2455.3	775.4	708.2	737.0	724.7	612.1	599.8	576.4	553.1	544.9
52.5°	5300.4	2227.5	673.9	638.2	683.5	654.7	565.4	553.1	532.5	502.3	492.7
55°	5362.1	2013.4	594.3	581.9	628.6	542.1	513.3	494.1	472.1	439.2	435.1
57.5°	5163.1	1642.8	477.6	485.8	555.8	462.5	450.2	420.0	382.9	361.0	358.2
60°	3573.9	882.5	299.2	308.8	402.1	388.4	403.5	376.1	330.8	310.2	306.1
62.5°	1641.4	354.1	163.3	156.5	211.4	263.5	345.9	343.1	286.8	253.9	251.2
65°	398.0	161.9	116.7	109.8	119.4	157.8	225.1	270.4	231.9	193.5	189.4
67.5°	129.0	131.8	107.1	100.2	105.7	118.0	134.5	149.6	148.2	135.9	133.1
70°	102.9	119.4	98.8	90.6	90.6	94.7	90.6	72.7	63.1	68.6	71.4
72.5°	76.9	90.6	78.2	70.0	67.2	65.9	56.3	41.2	28.8	26.1	24.7
75°	45.3	50.8	48.0	41.2	38.4	34.3	27.4	17.8	9.6	6.9	4.1
77.5°	8.2	9.6	11.0	8.2	6.9	5.5	4.1	1.4	0.0	0.0	0.0
80°	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)