

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: P636512

Luminaire Tested: GWS-SA3F-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636512
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-SA3F-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13020.3 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

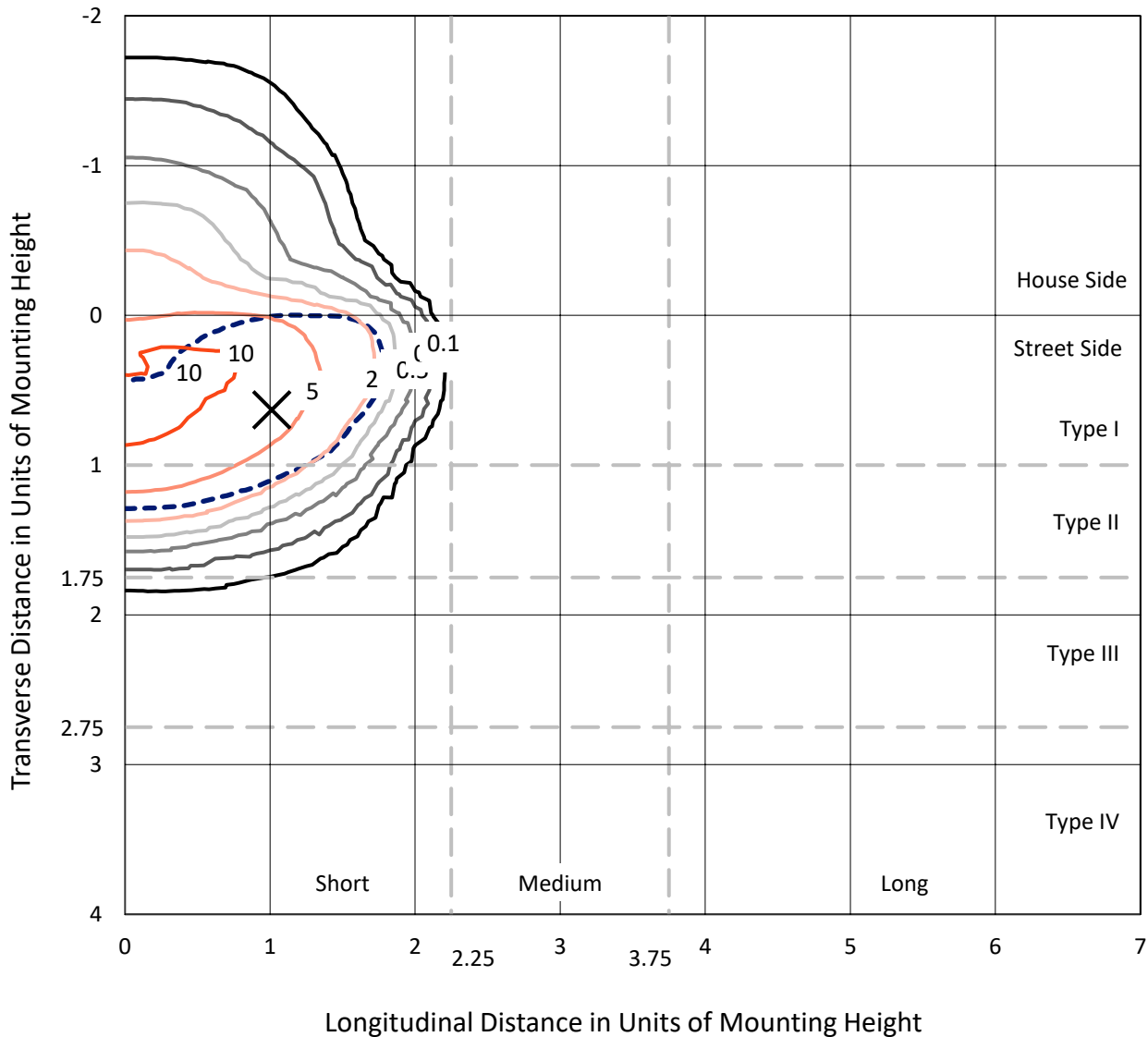
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

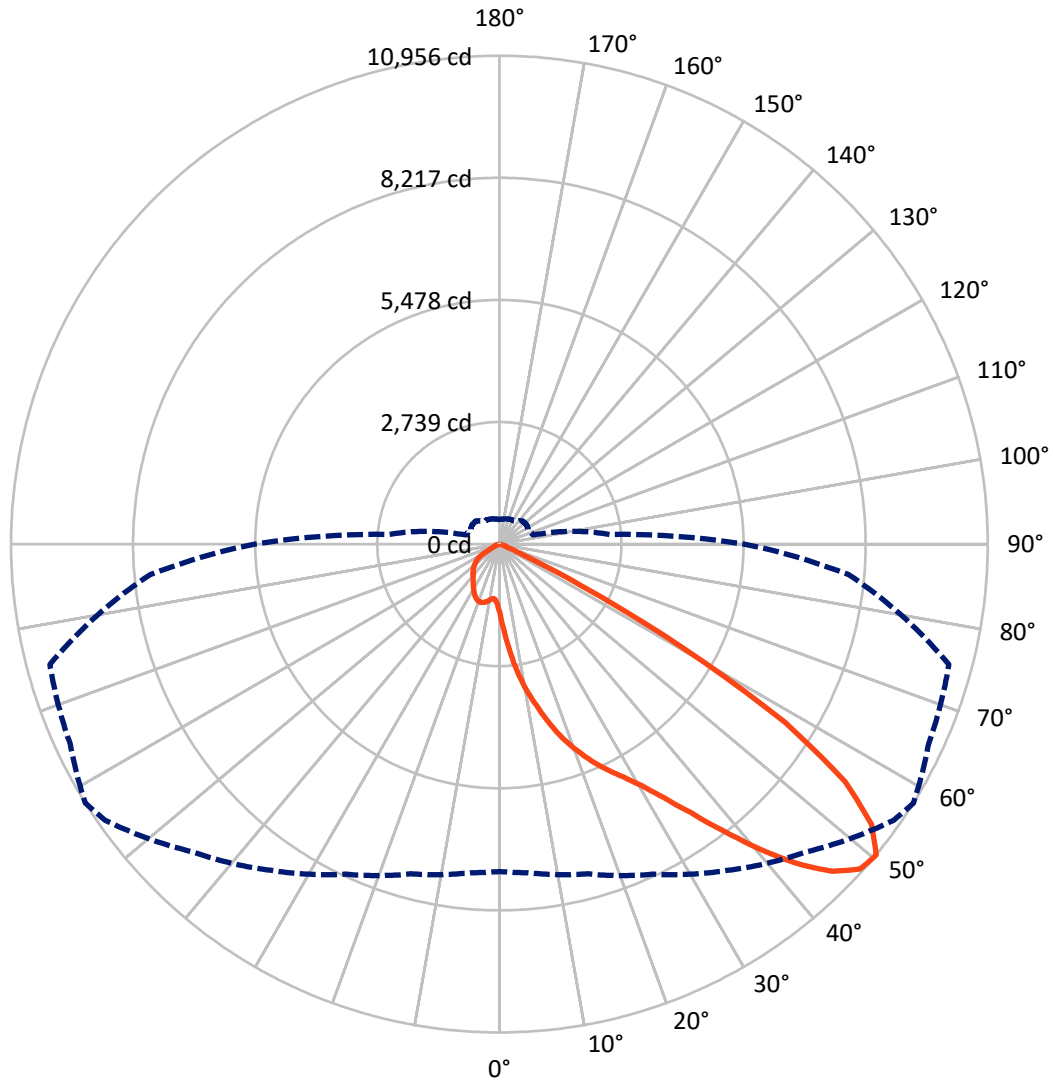
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 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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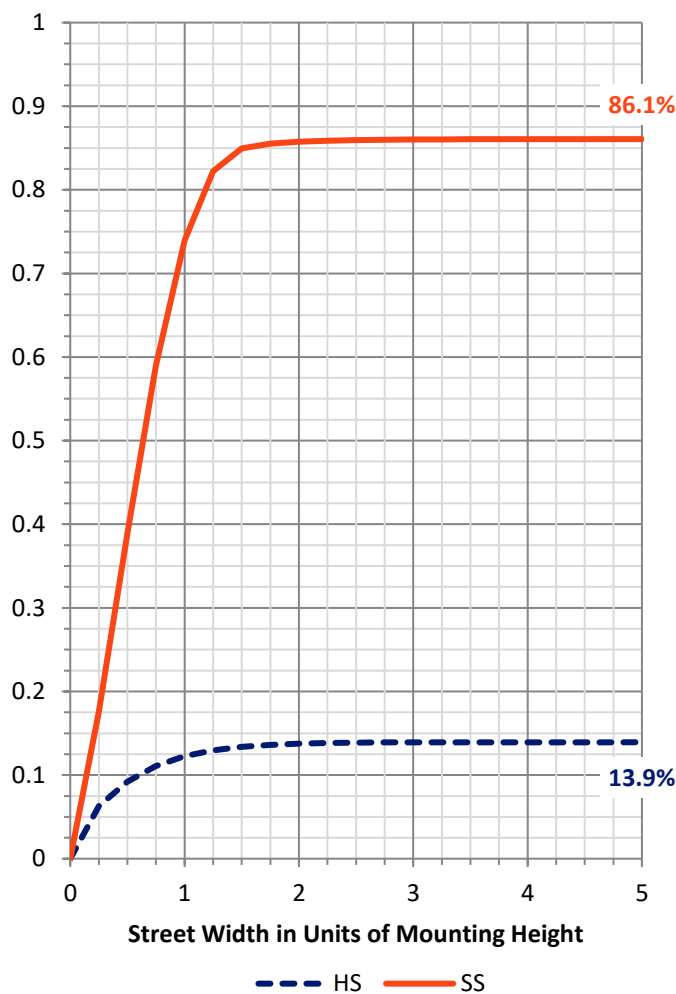
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1823.7	0.0	1823.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11196.6	0.0	11196.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	13020.3	0.0	13020.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.5
10°-20°	762.7	5.9
20°-30°	1543.4	11.9
30°-40°	2730.5	21.0
40°-50°	3980.5	30.6
50°-60°	3190.4	24.5
60°-70°	574.8	4.4
70°-80°	45.3	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°	13020.3	100.0
0°-180°	13020.3	100.0

Coefficient of Utilization



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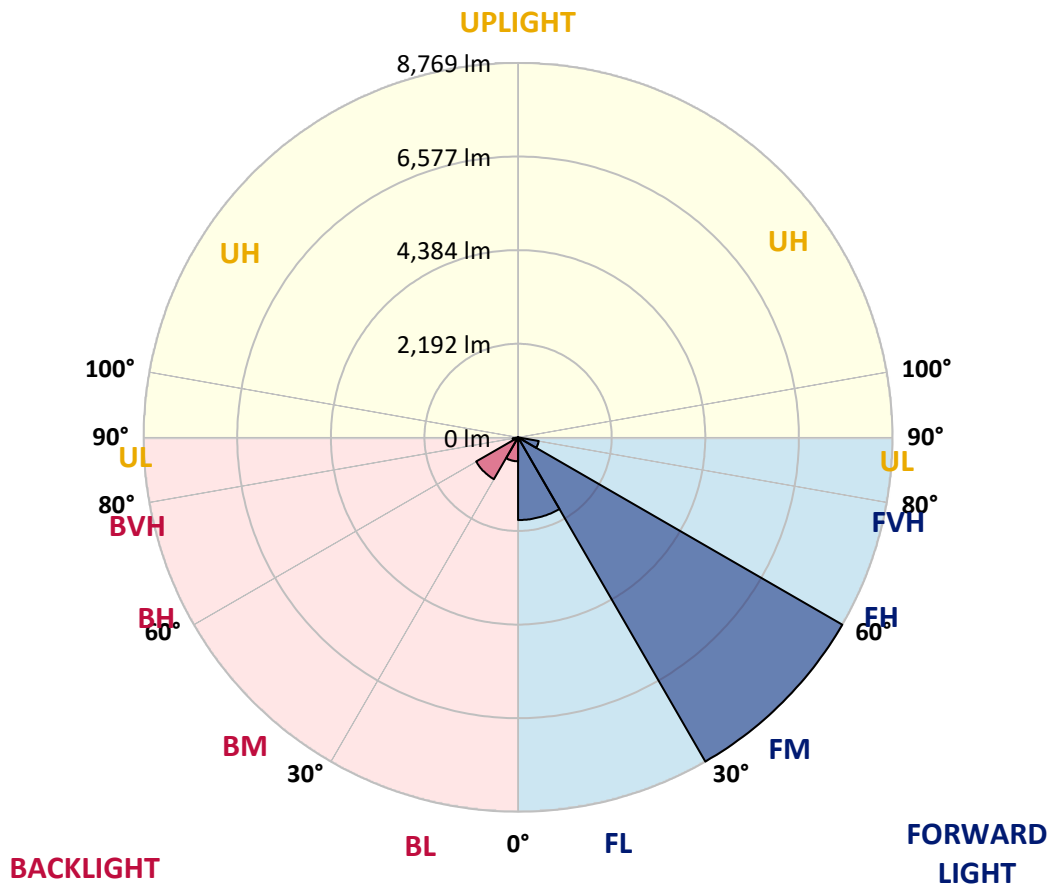
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.4	14.9			
FM (30°-60°)	8768.8	67.3			
FH (60°-80°)	490.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	561.4	4.3	B2/1000		
BM (30°-60°)	1132.6	8.7	B2/2500		
BH (60°-80°)	129.6	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°	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3
2.5°	2301.6	2265.3	2244.5	2227.8	2154.0	2037.0	1960.4	1920.0	1853.2	1740.4	1643.0
5°	3003.3	2976.8	2928.1	2894.7	2800.0	2634.3	2463.1	2394.8	2243.1	1988.3	1759.9
7.5°	3468.3	3448.8	3430.7	3386.2	3297.1	3146.7	2957.3	2886.3	2652.4	2290.4	1915.9
10°	3826.2	3810.9	3790.0	3788.6	3719.0	3583.9	3398.7	3324.9	3071.5	2619.0	2099.7
12.5°	4140.8	4128.3	4124.1	4163.1	4118.6	4018.3	3817.8	3725.9	3457.2	2954.6	2302.9
15°	4356.7	4353.9	4372.0	4448.6	4473.6	4427.7	4259.2	4160.3	3851.2	3291.5	2527.1
17.5°	4455.5	4463.9	4498.7	4630.9	4742.3	4781.3	4651.8	4568.3	4242.5	3632.6	2766.6
20°	4624.0	4621.2	4642.1	4767.4	4903.8	5043.1	5004.1	4933.1	4637.9	3993.3	3032.5
22.5°	5098.8	5058.4	5013.8	5033.3	5082.1	5245.0	5317.4	5281.2	5045.9	4363.6	3306.8
25°	5828.4	5786.6	5643.2	5504.0	5412.1	5485.9	5584.7	5602.8	5451.0	4743.7	3593.6
27.5°	6602.5	6564.9	6403.4	6194.6	5931.4	5803.3	5877.1	5913.3	5849.3	5196.2	3898.6
30°	7327.9	7277.8	7101.0	6842.0	6537.1	6340.8	6257.2	6282.3	6319.9	5732.3	4256.4
32.5°	7957.3	7919.7	7708.0	7435.1	7141.4	6936.7	6741.7	6783.5	6875.4	6388.1	4714.5
35°	8490.5	8471.0	8246.9	7975.4	7664.9	7560.4	7393.4	7401.7	7493.6	7180.3	5272.8
37.5°	8954.2	8920.8	8717.5	8465.5	8219.0	8202.3	8156.4	8160.6	8207.9	8103.5	5914.7
40°	9246.6	9216.0	9071.1	8915.2	8739.8	8742.6	8980.6	8998.7	8944.4	9009.9	6592.8
42.5°	9356.6	9334.3	9256.3	9257.7	9239.6	9321.8	9768.7	9802.1	9607.2	9721.4	7172.0
45°	9165.8	9156.1	9161.6	9362.1	9579.4	9832.8	10413.4	10471.8	10196.2	10193.4	7624.5
47.5°	8550.4	8530.9	8693.8	9034.9	9537.6	10030.5	10803.2	10893.7	10608.3	10463.5	7908.5
50°	7344.6	7400.3	7657.9	8170.3	8934.7	9759.0	10799.0	10956.4	10623.6	10439.8	7861.2
52.5°	5320.2	5309.0	5872.9	6577.5	7507.5	8890.1	10225.4	10455.1	10251.9	10207.3	7755.4
55°	2894.7	2996.3	3376.4	4309.3	5470.5	7245.8	8915.2	9416.4	9651.8	10122.4	7946.1
57.5°	1063.8	1108.3	1346.4	2006.4	2896.1	4505.6	6810.0	7566.0	8292.8	9885.7	7914.1
60°	428.8	437.2	531.9	737.9	1216.9	2293.2	4085.1	4756.3	5441.3	7567.4	6073.4
62.5°	311.9	323.0	360.6	431.6	615.4	1002.5	1761.3	2048.1	2238.9	3748.2	2992.2
65°	252.0	260.4	291.0	323.0	406.6	538.8	568.1	547.2	544.4	969.1	686.4
67.5°	208.9	217.2	239.5	261.8	292.4	268.7	194.9	204.7	167.1	165.7	135.1
70°	153.2	162.9	185.2	208.9	175.4	72.4	112.8	167.1	126.7	105.8	103.0
72.5°	115.6	122.5	143.4	136.5	51.5	27.8	75.2	121.1	97.5	78.0	76.6
75°	86.3	90.5	72.4	22.3	5.6	7.0	27.8	50.1	54.3	44.6	44.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.2	5.6	7.0	8.4
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°	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3	1555.3
2.5°	1587.3	1528.8	1445.3	1375.6	1322.7	1271.2	1232.2	1193.2	1191.8	1172.4	1168.2
5°	1654.1	1548.3	1395.1	1285.1	1218.3	1177.9	1150.1	1136.2	1129.2	1122.2	1119.4
7.5°	1750.2	1598.4	1386.8	1269.8	1214.1	1187.7	1168.2	1159.8	1155.6	1150.1	1148.7
10°	1868.5	1670.8	1417.4	1299.1	1250.3	1225.3	1204.4	1191.8	1184.9	1175.1	1172.4
12.5°	2010.6	1759.9	1466.1	1347.8	1296.3	1262.9	1235.0	1216.9	1207.2	1194.6	1191.8
15°	2163.7	1856.0	1520.4	1392.3	1331.1	1287.9	1253.1	1225.3	1207.2	1191.8	1187.7
17.5°	2322.4	1953.5	1569.2	1423.0	1347.8	1296.3	1246.2	1208.6	1186.3	1166.8	1161.2
20°	2500.7	2053.7	1601.2	1428.5	1342.2	1274.0	1215.5	1168.2	1145.9	1119.4	1113.9
22.5°	2687.2	2147.0	1615.1	1416.0	1311.6	1232.2	1169.6	1120.8	1088.8	1061.0	1052.6
25°	2868.2	2230.5	1608.2	1381.2	1265.6	1173.7	1109.7	1059.6	1024.8	996.9	990.0
27.5°	3060.4	2300.2	1583.1	1329.7	1203.0	1109.7	1048.4	1005.3	973.3	942.6	935.7
30°	3276.2	2364.2	1542.7	1267.0	1129.2	1044.3	996.9	967.7	932.9	900.8	891.1
32.5°	3536.6	2421.3	1484.2	1191.8	1063.8	987.2	960.7	938.4	898.1	864.6	857.7
35°	3834.5	2468.6	1410.4	1113.9	999.7	951.0	945.4	916.2	863.3	824.3	815.9
37.5°	4179.8	2514.6	1322.7	1037.3	952.4	934.3	935.7	885.5	821.5	774.1	768.6
40°	4551.6	2560.5	1225.3	970.5	909.2	924.5	912.0	841.0	736.6	690.6	685.0
42.5°	4938.7	2610.7	1126.4	907.8	873.0	886.9	868.8	751.9	676.7	653.0	650.2
45°	5288.1	2670.5	1019.2	845.2	836.8	832.6	802.0	680.9	648.8	632.1	630.7
47.5°	5540.2	2660.8	905.0	785.3	797.8	783.9	690.6	647.4	621.0	598.7	593.1
50°	5494.2	2490.9	786.7	718.5	747.7	735.2	621.0	608.5	584.8	561.1	552.8
52.5°	5377.2	2259.8	683.6	647.4	693.4	664.1	573.6	561.1	540.2	509.6	499.9
55°	5439.9	2042.6	602.9	590.4	637.7	550.0	520.7	501.2	479.0	445.6	441.4
57.5°	5238.0	1666.6	484.5	492.9	563.9	469.2	456.7	426.1	388.5	366.2	363.4
60°	3625.7	895.3	303.5	313.3	408.0	394.0	409.4	381.5	335.6	314.7	310.5
62.5°	1665.2	359.2	165.7	158.7	214.4	267.3	350.9	348.1	291.0	257.6	254.8
65°	403.8	164.3	118.3	111.4	121.1	160.1	228.3	274.3	235.3	196.3	192.1
67.5°	130.9	133.7	108.6	101.6	107.2	119.7	136.5	151.8	150.4	137.8	135.1
70°	104.4	121.1	100.2	91.9	91.9	96.1	91.9	73.8	64.0	69.6	72.4
72.5°	78.0	91.9	79.4	71.0	68.2	66.8	57.1	41.8	29.2	26.5	25.1
75°	45.9	51.5	48.7	41.8	39.0	34.8	27.8	18.1	9.7	7.0	4.2
77.5°	8.4	9.7	11.1	8.4	7.0	5.6	4.2	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)