

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: P636793

Luminaire Tested: GWS-SA4B-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636793
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-SA4B-740-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10626.3 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

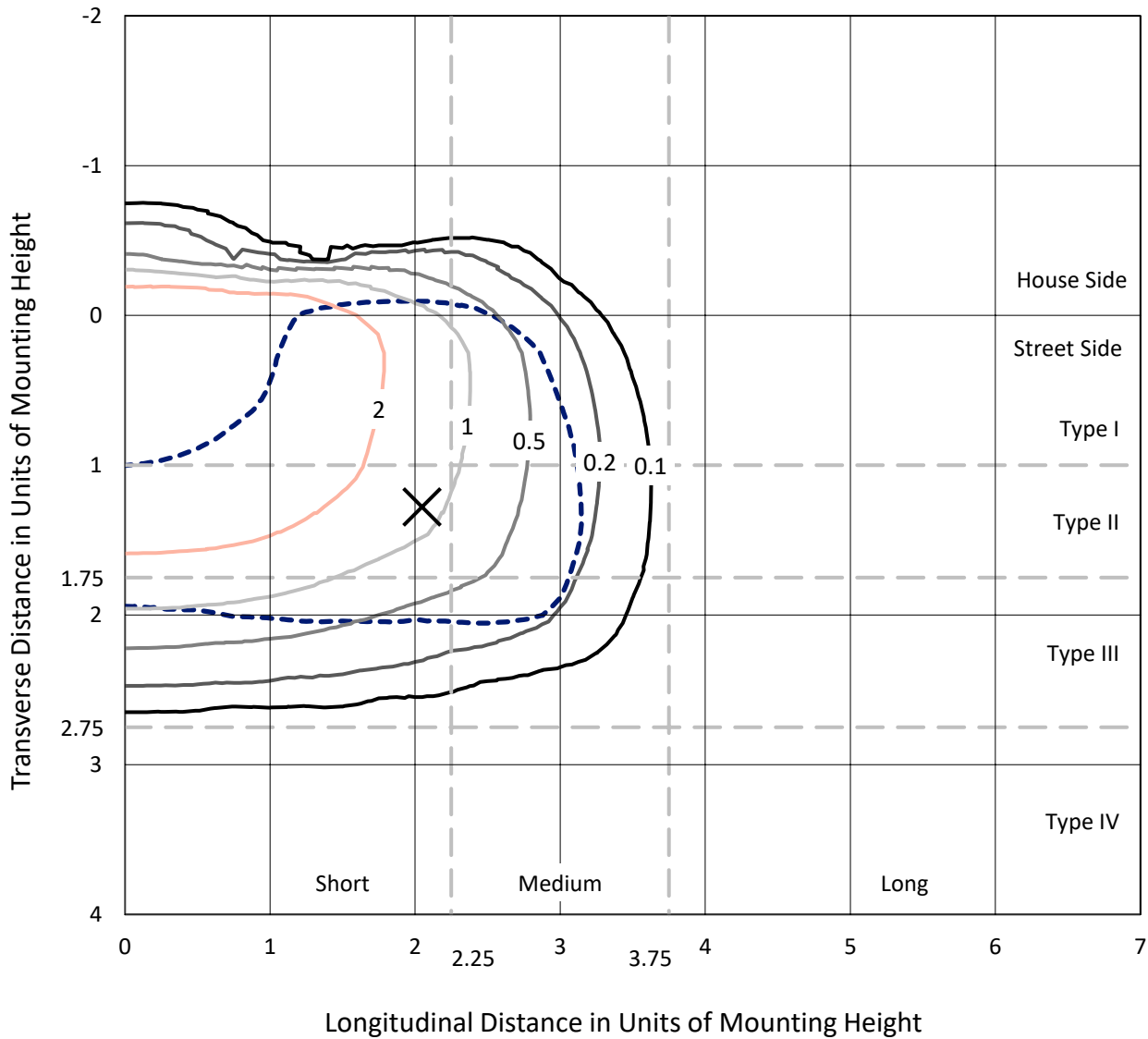
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

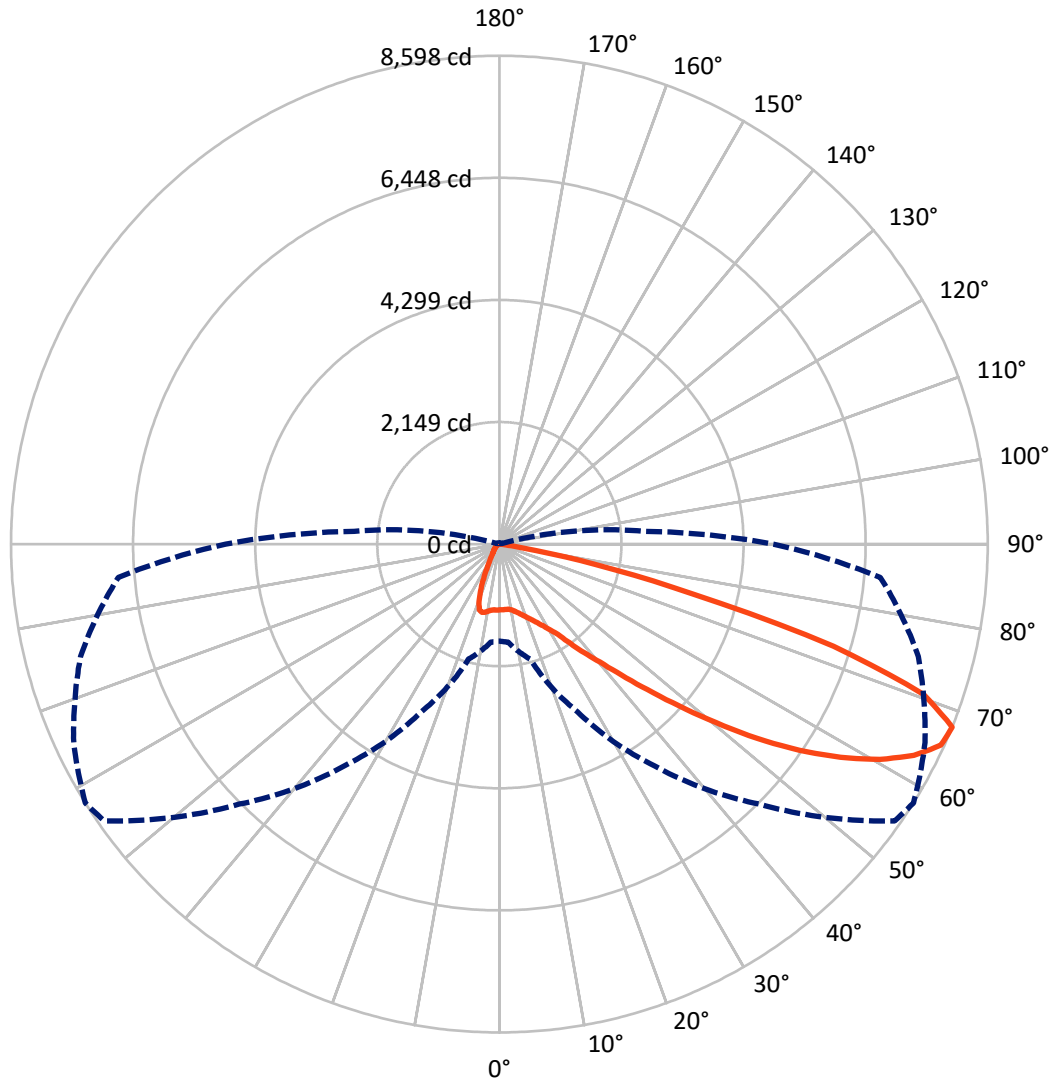
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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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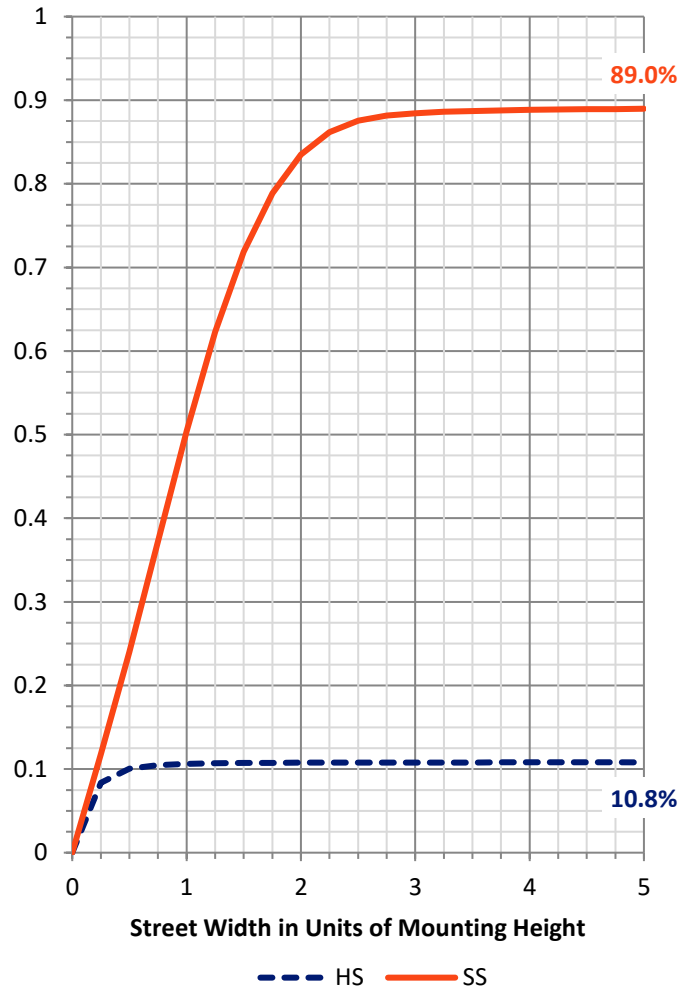
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.3	0.0	1159.3
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	9467.0	0.0	9467.0
	% Fixture	89.1	0.0	89.1
Total	Lumens	10626.3	0.0	10626.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.0
10°-20°	305.4	2.9
20°-30°	533.1	5.0
30°-40°	952.1	9.0
40°-50°	1740.2	16.4
50°-60°	2894.1	27.2
60°-70°	3143.5	29.6
70°-80°	923.0	8.7
80°-90°	26.3	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°	10626.3	100.0
0°-180°	10626.3	100.0

Coefficient of Utilization



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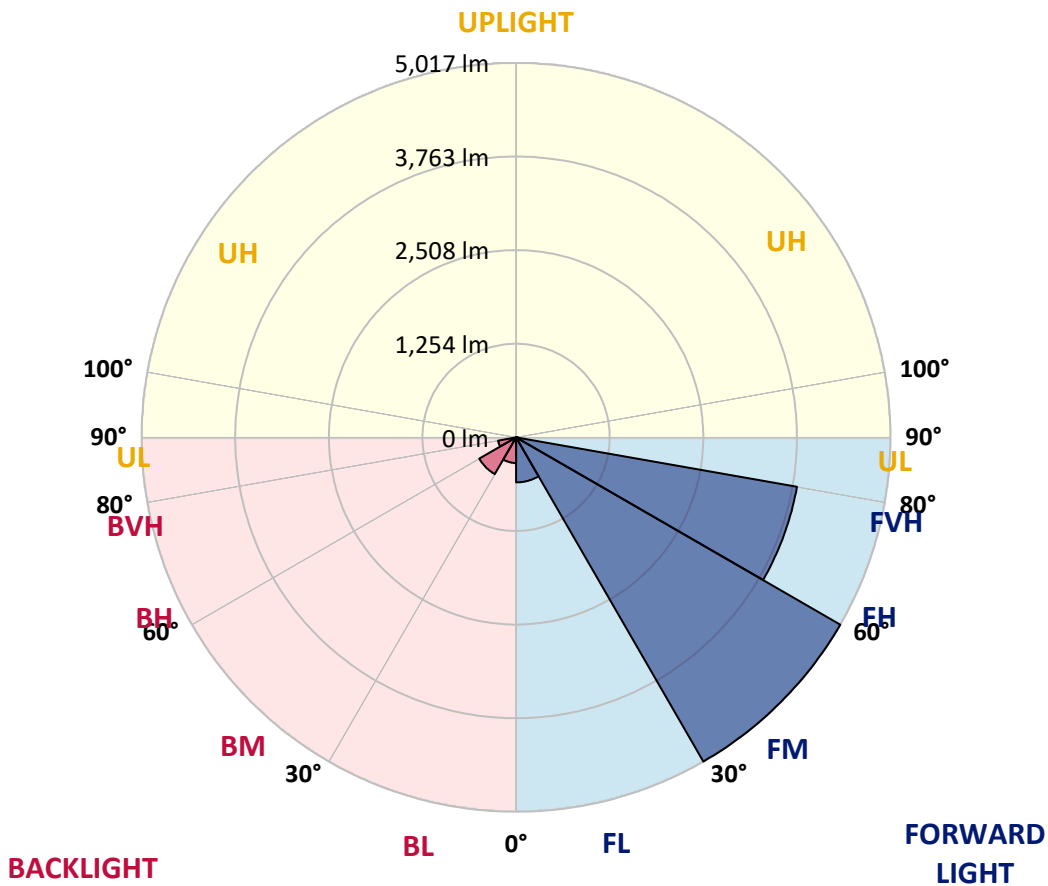
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	603.4	5.7			
FM (30°-60°)	5016.9	47.2			
FH (60°-80°)	3821.7	36.0			G2/5000
FVH (80°-90°)	25.0	0.2			G1/100
BL (0°-30°)	343.9	3.2	B1/500		
BM (30°-60°)	569.4	5.4	B1/1000		
BH (60°-80°)	244.7	2.3	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: 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°	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9
2.5°	1136.2	1134.1	1134.1	1142.4	1143.4	1147.6	1156.9	1157.9	1163.1	1161.1	1153.8
5°	1077.0	1078.1	1084.3	1098.8	1111.3	1126.8	1149.6	1154.8	1166.2	1172.5	1168.3
7.5°	1022.0	1023.1	1032.4	1055.2	1079.1	1110.2	1147.6	1157.9	1180.8	1197.4	1198.4
10°	1001.3	1000.2	1009.6	1035.5	1066.6	1110.2	1164.2	1177.7	1211.9	1241.0	1246.1
12.5°	1007.5	1006.5	1015.8	1039.7	1073.9	1128.9	1193.2	1211.9	1255.5	1300.1	1309.4
15°	1032.4	1031.4	1037.6	1057.3	1094.7	1151.7	1230.6	1258.6	1313.6	1367.5	1382.1
17.5°	1107.1	1101.9	1095.7	1097.8	1119.6	1178.7	1278.3	1312.5	1381.0	1445.4	1457.8
20°	1239.9	1226.4	1209.8	1188.0	1177.7	1218.1	1333.3	1372.7	1455.7	1529.4	1531.5
22.5°	1440.2	1435.0	1396.6	1333.3	1288.7	1289.7	1397.6	1443.3	1545.0	1625.9	1614.5
25°	1719.3	1716.2	1657.0	1553.3	1437.1	1397.6	1479.6	1526.3	1650.8	1736.9	1700.6
27.5°	2065.8	2044.1	1974.5	1834.5	1661.2	1537.7	1583.4	1624.9	1762.9	1843.8	1775.3
30°	2367.8	2368.8	2303.4	2157.1	1962.1	1748.3	1709.9	1746.3	1865.6	1950.7	1867.7
32.5°	2658.3	2667.6	2596.0	2464.3	2250.5	2023.3	1891.5	1897.8	1997.4	2089.7	1989.1
35°	2928.1	2935.3	2885.5	2773.5	2574.3	2310.7	2144.7	2141.6	2195.5	2290.0	2158.2
37.5°	3230.0	3237.3	3188.5	3087.9	2901.1	2639.6	2432.1	2428.0	2449.7	2526.5	2376.1
40°	3551.7	3565.2	3511.2	3426.1	3247.7	3026.6	2766.2	2728.9	2707.1	2797.3	2658.3
42.5°	3877.5	3898.2	3879.5	3794.5	3641.9	3459.3	3199.9	3141.8	3095.1	3208.2	3060.9
45°	4282.1	4307.0	4298.7	4233.4	4115.1	3966.7	3721.8	3654.4	3632.6	3737.4	3562.0
47.5°	4671.2	4698.2	4728.3	4713.8	4629.7	4561.2	4289.4	4251.0	4244.8	4356.8	4085.0
50°	4960.7	4985.6	5100.8	5183.8	5240.9	5226.3	4990.8	4933.7	4924.4	4996.0	4637.0
52.5°	5168.2	5192.1	5350.8	5610.2	5819.8	5934.0	5696.4	5683.9	5633.1	5608.2	5153.7
55°	5329.1	5362.3	5529.3	5921.5	6343.8	6597.0	6448.6	6404.0	6273.3	6130.1	5633.1
57.5°	5361.2	5374.7	5610.2	6139.4	6750.6	7160.4	7160.4	7082.6	6830.4	6632.3	6187.1
60°	5072.8	5114.3	5432.8	6121.8	6924.9	7528.7	7750.8	7696.8	7356.5	7112.7	6720.5
62.5°	4432.6	4479.3	4867.3	5699.5	6750.6	7604.5	8198.0	8189.7	7805.8	7510.1	7162.5
65°	3399.1	3433.4	3771.6	4767.7	6013.9	7312.9	8517.6	8540.4	8160.6	7772.6	7315.0
67.5°	1707.9	1731.7	2097.0	3257.0	4766.7	6473.5	8495.8	8597.5	8268.5	7633.5	6732.9
70°	596.6	620.5	792.7	1397.6	2901.1	4943.1	7761.2	7927.2	7634.6	6516.1	4966.9
72.5°	204.4	215.8	328.9	518.8	1128.9	2930.2	5901.8	6151.9	5627.9	4374.5	2854.4
75°	116.2	123.5	176.4	281.2	473.1	963.9	3348.3	3501.9	3280.9	2384.4	1174.6
77.5°	78.9	85.1	110.0	159.8	261.5	310.2	1365.5	1719.3	1499.3	778.2	299.9
80°	46.7	50.8	67.4	94.4	133.8	120.4	292.6	389.1	501.2	232.4	90.3
82.5°	21.8	24.9	43.6	62.3	67.4	50.8	86.1	104.8	141.1	114.1	37.4
85°	0.0	0.0	14.5	25.9	24.9	14.5	23.9	25.9	38.4	57.1	14.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1	6.2	11.4	6.2
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°	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9	1157.9
2.5°	1162.1	1154.8	1163.1	1159.0	1163.1	1162.1	1153.8	1148.6	1148.6	1139.3	1136.2
5°	1176.6	1169.4	1171.4	1162.1	1160.0	1154.8	1144.5	1140.3	1140.3	1131.0	1127.9
7.5°	1208.8	1197.4	1195.3	1176.6	1168.3	1153.8	1135.1	1127.9	1126.8	1117.5	1114.4
10°	1259.6	1246.1	1236.8	1212.9	1189.1	1160.0	1120.6	1087.4	1068.7	1043.8	1041.7
12.5°	1321.9	1305.3	1290.8	1254.4	1215.0	1149.6	1033.4	912.0	837.3	778.2	782.3
15°	1391.4	1375.8	1353.0	1298.0	1217.1	1046.9	804.1	617.4	526.1	477.3	475.2
17.5°	1467.2	1444.3	1407.0	1332.3	1151.7	800.0	522.9	369.4	321.7	305.1	300.9
20°	1537.7	1509.7	1463.0	1339.5	962.9	541.6	326.8	286.4	278.1	272.9	272.9
22.5°	1612.4	1577.1	1507.6	1283.5	715.9	346.6	278.1	268.7	262.5	255.2	254.2
25°	1688.2	1642.5	1548.1	1137.2	469.0	272.9	260.4	250.1	238.6	227.2	224.1
27.5°	1752.5	1693.3	1579.2	919.3	300.9	245.9	237.6	220.0	204.4	192.0	189.9
30°	1829.3	1753.5	1592.7	672.4	236.6	216.9	204.4	185.7	167.1	154.6	150.5
32.5°	1932.0	1849.0	1571.9	437.9	209.6	190.9	171.2	149.4	130.7	117.2	115.2
35°	2091.8	1993.2	1476.5	279.1	189.9	165.0	141.1	118.3	102.7	92.3	90.3
37.5°	2286.8	2195.5	1319.8	209.6	170.2	143.2	115.2	93.4	82.0	74.7	72.6
40°	2576.3	2448.7	1125.8	183.7	150.5	121.4	94.4	76.8	68.5	62.3	60.2
42.5°	2951.9	2747.5	902.7	167.1	131.8	101.7	76.8	63.3	56.0	51.9	50.8
45°	3390.8	3039.1	667.2	150.5	114.1	84.0	63.3	51.9	46.7	43.6	42.5
47.5°	3840.1	3294.3	460.7	132.8	97.5	69.5	52.9	44.6	40.5	36.3	35.3
50°	4319.5	3510.2	314.4	115.2	83.0	57.1	45.7	40.5	35.3	32.2	31.1
52.5°	4671.2	3590.1	218.9	99.6	70.6	48.8	40.5	36.3	32.2	28.0	27.0
55°	4996.0	3588.0	166.0	84.0	60.2	42.5	36.3	32.2	28.0	24.9	23.9
57.5°	5319.7	3560.0	130.7	71.6	51.9	38.4	32.2	28.0	25.9	21.8	20.8
60°	5529.3	3454.1	101.7	60.2	44.6	33.2	28.0	24.9	21.8	18.7	17.6
62.5°	5640.3	3306.8	77.8	47.7	36.3	29.1	24.9	21.8	18.7	15.6	14.5
65°	5489.9	3045.3	61.2	37.4	28.0	24.9	20.8	17.6	14.5	11.4	10.4
67.5°	4822.7	2568.0	47.7	30.1	21.8	18.7	17.6	14.5	10.4	8.3	7.3
70°	3408.5	1758.7	37.4	22.8	16.6	14.5	13.5	11.4	8.3	6.2	5.2
72.5°	1870.8	887.1	27.0	16.6	12.5	11.4	10.4	9.3	7.3	5.2	5.2
75°	720.1	243.8	19.7	11.4	8.3	8.3	7.3	7.3	6.2	4.2	4.2
77.5°	187.8	72.6	12.5	7.3	5.2	5.2	5.2	4.2	4.2	3.1	3.1
80°	60.2	23.9	7.3	5.2	4.2	3.1	3.1	2.1	3.1	2.1	2.1
82.5°	19.7	8.3	4.2	4.2	3.1	2.1	2.1	1.0	1.0	0.0	0.0
85°	7.3	4.2	3.1	2.1	2.1	2.1	1.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	1.0	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)