

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P522674

Luminaire Tested: **GALN-SA2C-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10401 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

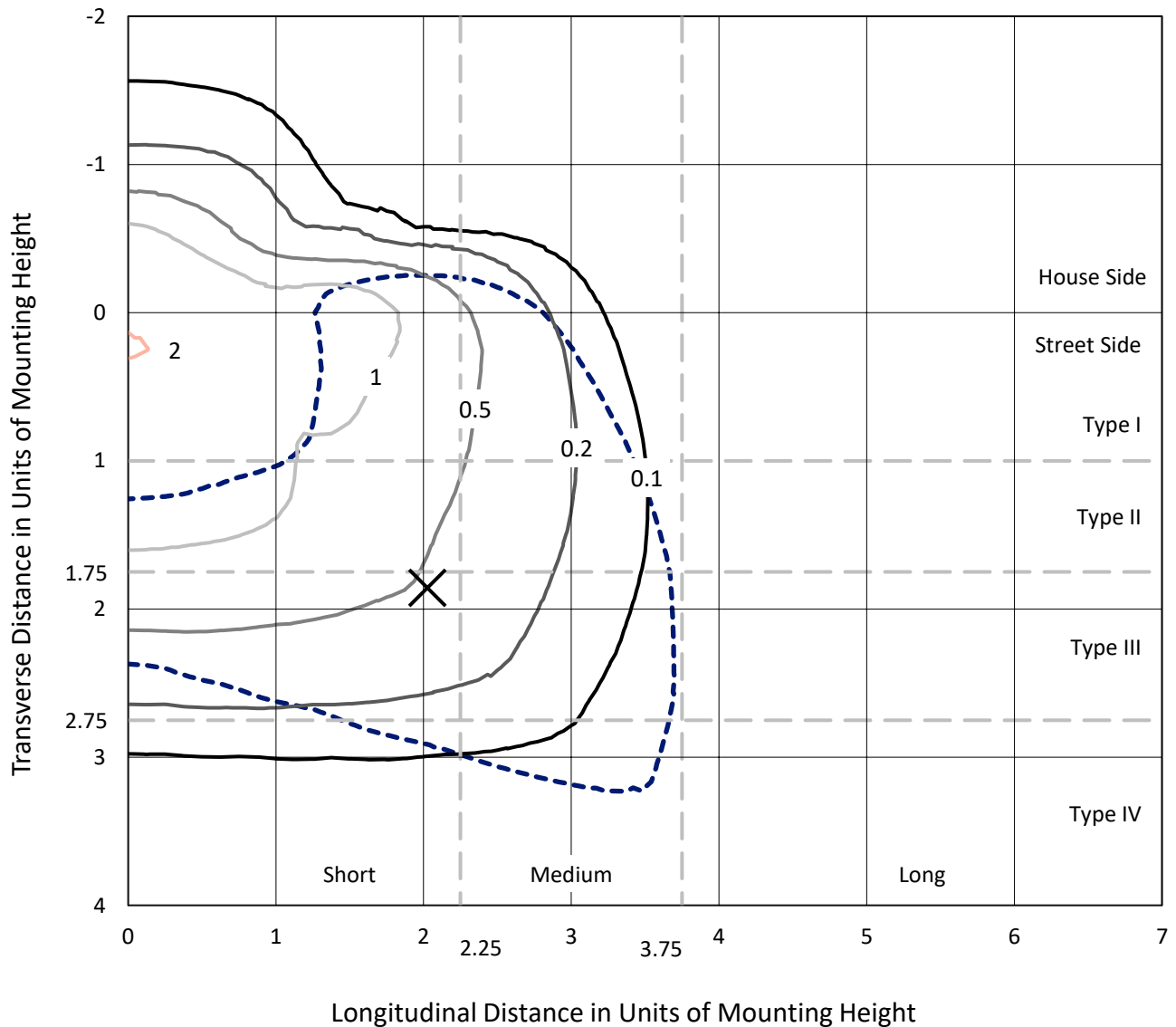
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

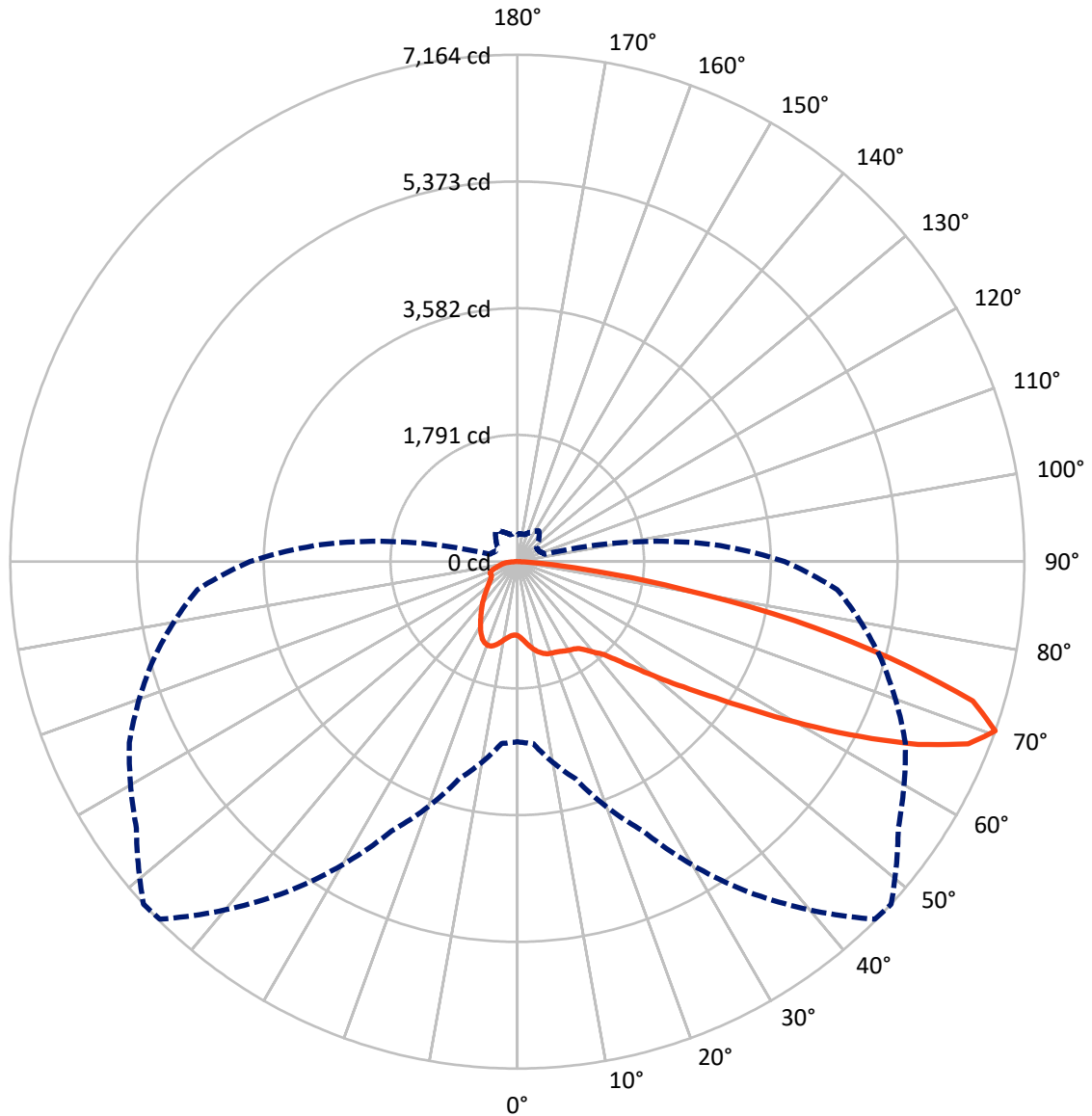
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2355.0	0.0	2355.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8046.0	0.0	8046.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	10401.0	0.0	10401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	1.0
10°-20°	359.8	3.5
20°-30°	598.4	5.8
30°-40°	848.1	8.2
40°-50°	1252.0	12.0
50°-60°	2168.4	20.8
60°-70°	3063.0	29.4
70°-80°	1760.8	16.9
80°-90°	242.9	2.3
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°	10401.0	100.0
0°-180°	10401.0	100.0

**Coefficient of Utilization**



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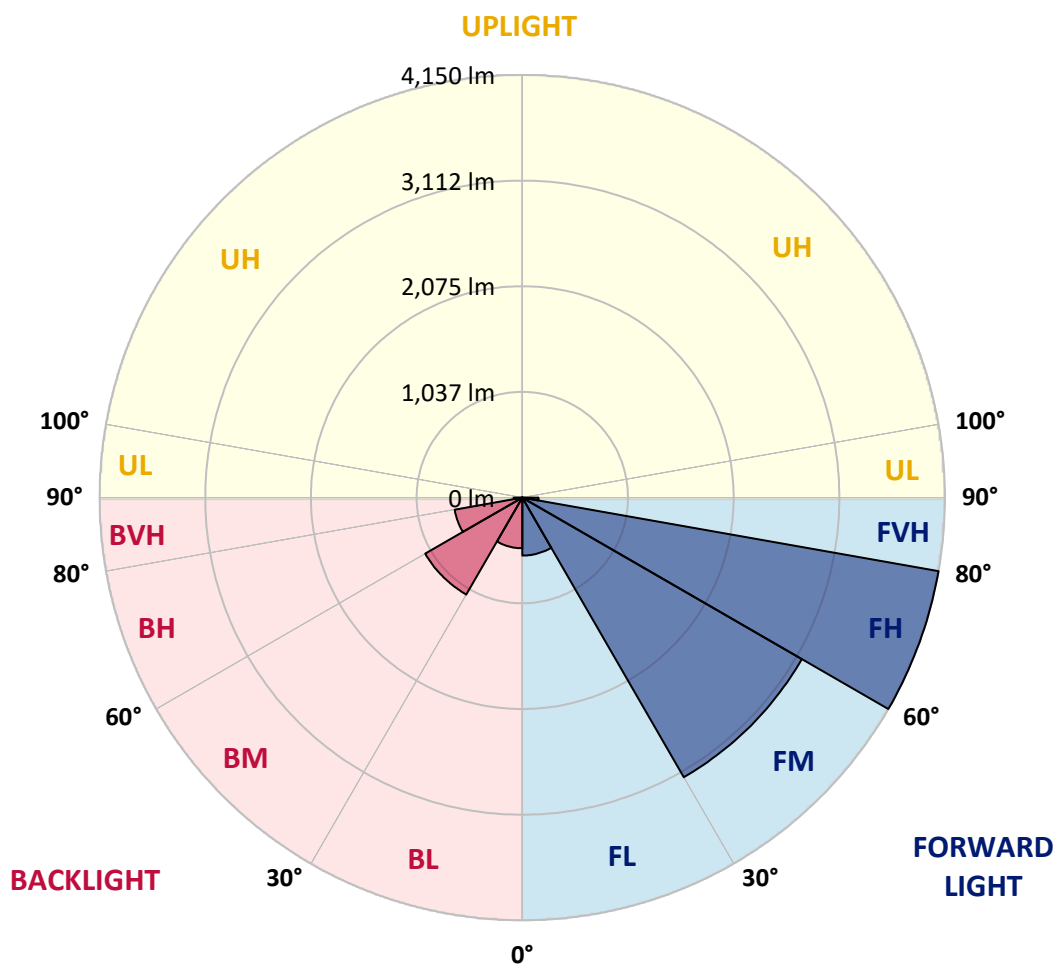
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.8	5.5			
FM	(30°-60°)	3169.0	30.5			
FH	(60°-80°)	4149.6	39.9			G2/5000
FVH	(80°-90°)	158.7	1.5			G2/225
BL	(0°-30°)	497.0	4.8	B1/500		
BM	(30°-60°)	1099.5	10.6	B2/2500		
BH	(60°-80°)	674.2	6.5	B2/1000		G2/1000
BVH	(80°-90°)	84.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1
2.5°	1111.5	1107.6	1107.0	1098.7	1094.2	1085.9	1082.5	1074.7	1065.3	1055.8	1046.9
5°	1198.9	1198.9	1195.0	1183.3	1164.9	1146.0	1137.6	1122.6	1095.9	1074.2	1055.8
7.5°	1288.5	1289.6	1281.8	1264.5	1238.4	1207.8	1200.0	1177.7	1139.9	1108.1	1080.9
10°	1365.8	1365.8	1355.3	1331.9	1299.0	1265.7	1257.9	1232.8	1190.5	1151.0	1115.4
12.5°	1424.8	1424.8	1410.9	1380.3	1344.7	1314.6	1305.7	1281.8	1242.3	1198.3	1153.2
15°	1463.2	1460.5	1444.9	1410.4	1375.9	1349.7	1343.6	1323.5	1287.4	1242.8	1192.2
17.5°	1464.9	1463.8	1448.8	1419.8	1389.8	1372.0	1368.1	1354.7	1326.3	1284.0	1230.6
20°	1432.6	1434.9	1424.8	1404.2	1389.8	1382.0	1380.3	1375.9	1355.8	1316.3	1262.9
22.5°	1398.1	1402.0	1392.6	1381.4	1380.3	1388.1	1389.2	1390.3	1377.5	1339.1	1290.1
25°	1389.8	1392.6	1383.1	1373.1	1379.2	1399.8	1404.2	1408.7	1398.7	1366.4	1322.4
27.5°	1432.1	1429.8	1411.5	1389.8	1393.7	1421.5	1427.6	1432.6	1427.6	1399.8	1362.5
30°	1551.7	1544.5	1507.8	1444.3	1424.3	1443.8	1449.9	1463.8	1463.8	1443.2	1405.9
32.5°	1752.1	1738.2	1670.8	1546.2	1476.6	1464.9	1471.0	1493.8	1505.5	1489.4	1448.8
35°	1995.3	1980.9	1884.6	1717.0	1572.3	1507.2	1505.5	1531.1	1562.3	1526.1	1473.3
37.5°	2239.7	2224.6	2108.9	1920.7	1712.0	1596.3	1586.2	1595.1	1608.5	1542.3	1507.2
40°	2484.0	2466.2	2364.9	2148.4	1882.9	1714.3	1688.1	1648.0	1642.5	1595.1	1572.9
42.5°	2726.1	2710.0	2658.8	2403.8	2087.7	1829.5	1789.4	1720.4	1741.5	1713.1	1693.7
45°	2970.4	2971.6	2917.0	2690.5	2334.8	2042.1	1988.1	1880.1	1930.2	1919.6	1930.8
47.5°	3187.0	3184.2	3164.7	2968.8	2641.5	2315.9	2246.3	2121.1	2206.8	2245.8	2330.9
50°	3396.8	3395.1	3396.2	3284.4	2997.7	2641.5	2564.7	2433.3	2626.5	2761.7	2914.2
52.5°	3697.3	3706.8	3639.4	3609.9	3430.7	3026.1	2941.5	2805.7	3122.4	3335.6	3633.3
55°	3999.0	3991.2	3938.3	3968.9	3883.8	3481.4	3392.9	3284.9	3674.5	3907.7	4355.2
57.5°	4176.5	4179.3	4233.3	4383.0	4443.1	4049.1	3968.9	3885.5	4295.1	4460.4	4997.5
60°	4336.3	4349.1	4504.4	4787.1	4950.2	4746.5	4675.2	4594.0	4864.5	4930.1	5555.2
62.5°	4386.4	4425.9	4696.9	5119.9	5444.4	5533.5	5445.0	5265.8	5406.6	5381.0	5933.1
65°	4136.5	4190.5	4676.3	5244.6	5885.8	6280.4	6224.2	5891.3	5868.5	5714.4	5994.9
67.5°	3478.6	3532.6	4156.5	4983.0	6068.3	6927.1	6870.9	6347.7	6149.0	5745.5	5527.3
70°	2545.2	2579.2	3175.8	4195.5	5701.6	7144.2	7163.7	6570.4	6048.9	5322.0	4538.3
72.5°	1466.6	1541.7	1959.7	2951.5	4658.0	6595.4	6730.7	6107.3	5415.5	4439.8	3173.0
75°	630.6	632.3	906.1	1628.0	3154.7	5301.4	5432.2	5062.6	4252.8	3070.1	1694.2
77.5°	300.0	305.6	398.5	726.9	1736.5	3662.8	4015.7	3576.6	2720.0	1474.9	640.1
80°	194.8	198.7	243.8	360.7	851.6	2123.9	2369.9	2063.2	1200.0	527.1	276.1
82.5°	118.0	119.1	163.1	220.4	468.6	961.8	1133.7	895.5	512.0	315.6	162.5
85°	71.8	72.4	99.1	136.4	284.4	332.3	341.2	338.4	300.6	206.5	86.8
87.5°	34.5	35.6	51.2	64.6	111.9	103.0	97.4	113.0	141.9	111.3	37.3
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°	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1
2.5°	1043.0	1041.4	1037.5	1035.8	1034.7	1035.2	1034.7	1034.7	1035.2	1035.2	1035.2
5°	1048.0	1045.2	1039.1	1039.1	1042.5	1050.3	1057.5	1063.1	1069.2	1068.6	1068.6
7.5°	1069.7	1064.7	1057.5	1059.7	1068.1	1080.3	1093.1	1105.4	1117.6	1118.7	1118.2
10°	1101.5	1096.5	1088.7	1091.4	1104.8	1123.2	1139.3	1157.1	1170.5	1174.4	1173.3
12.5°	1137.6	1127.6	1120.9	1128.7	1149.9	1174.4	1190.0	1203.3	1212.8	1218.3	1216.1
15°	1174.4	1164.9	1157.1	1173.3	1198.9	1221.7	1229.5	1231.7	1233.4	1238.9	1237.8
17.5°	1210.0	1197.2	1194.4	1215.6	1240.0	1250.1	1245.6	1236.2	1228.9	1233.4	1232.8
20°	1241.7	1231.7	1230.6	1251.7	1261.2	1251.7	1232.8	1216.1	1203.3	1204.4	1203.9
22.5°	1271.8	1264.0	1265.1	1274.0	1259.0	1226.7	1195.5	1172.7	1158.8	1161.6	1163.2
25°	1305.2	1297.4	1300.2	1285.7	1236.2	1179.9	1134.9	1115.4	1109.8	1115.4	1119.3
27.5°	1348.6	1343.6	1341.9	1286.2	1195.5	1110.9	1059.7	1052.5	1057.5	1069.7	1075.9
30°	1395.3	1395.3	1386.4	1276.8	1139.9	1028.0	983.5	984.6	1001.8	1019.1	1025.2
32.5°	1440.4	1449.9	1422.0	1251.2	1068.1	947.3	913.3	914.5	929.5	950.6	956.2
35°	1477.7	1505.0	1452.7	1204.4	983.5	879.4	853.8	838.8	839.3	855.5	859.9
37.5°	1528.9	1579.6	1470.5	1134.9	893.3	821.5	792.6	766.4	749.2	742.5	742.5
40°	1618.0	1692.5	1474.9	1031.9	808.1	766.4	725.2	694.0	660.7	630.6	625.0
42.5°	1768.8	1862.9	1466.0	913.3	731.3	705.7	665.7	627.3	581.1	538.8	535.4
45°	2036.0	2084.4	1442.1	790.3	662.9	647.3	608.3	566.6	517.6	479.8	477.0
47.5°	2464.0	2395.5	1410.4	681.2	600.5	596.1	566.0	517.6	468.6	442.5	439.7
50°	3089.0	2885.3	1405.9	602.2	550.5	552.7	528.2	483.7	440.8	419.1	415.8
52.5°	3841.5	3476.9	1435.4	546.6	506.5	514.8	502.6	461.4	423.6	405.2	401.8
55°	4571.7	4009.0	1453.2	503.1	465.3	480.9	482.6	448.0	413.5	395.2	392.9
57.5°	5164.5	4409.7	1374.2	463.6	429.7	453.6	465.9	440.3	408.5	394.6	392.4
60°	5576.9	4599.0	1149.3	428.6	403.5	431.9	459.7	440.8	420.8	422.4	423.6
62.5°	5708.2	4514.9	862.1	402.4	385.7	424.7	469.7	463.6	443.0	455.8	458.1
65°	5490.6	4167.6	625.0	381.8	370.1	429.7	499.8	480.3	435.2	444.7	444.7
67.5°	4762.1	3590.5	486.4	362.9	352.3	439.1	529.9	478.7	416.9	428.0	418.0
70°	3777.5	2777.3	405.2	341.7	333.4	425.2	532.6	461.4	395.2	397.4	378.5
72.5°	2506.8	1826.1	348.4	321.7	304.4	382.4	509.8	439.1	374.0	361.2	342.3
75°	1228.4	910.6	303.9	296.7	266.6	332.8	478.7	418.0	351.2	331.2	320.6
77.5°	475.9	387.4	259.4	264.9	232.1	293.3	437.5	387.9	321.1	293.9	285.5
80°	231.0	219.8	212.6	221.0	190.9	249.9	399.6	361.8	293.3	263.3	251.0
82.5°	143.6	135.8	163.1	172.0	146.9	228.2	379.0	339.5	258.3	218.2	208.2
85°	72.9	77.9	109.1	117.4	105.2	181.4	312.2	254.9	186.5	154.7	155.8
87.5°	27.8	37.3	57.3	61.8	56.2	95.7	172.0	148.6	119.7	81.3	75.1
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)