

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: P450585

Luminaire Tested: **GALN-SA1B-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4257 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

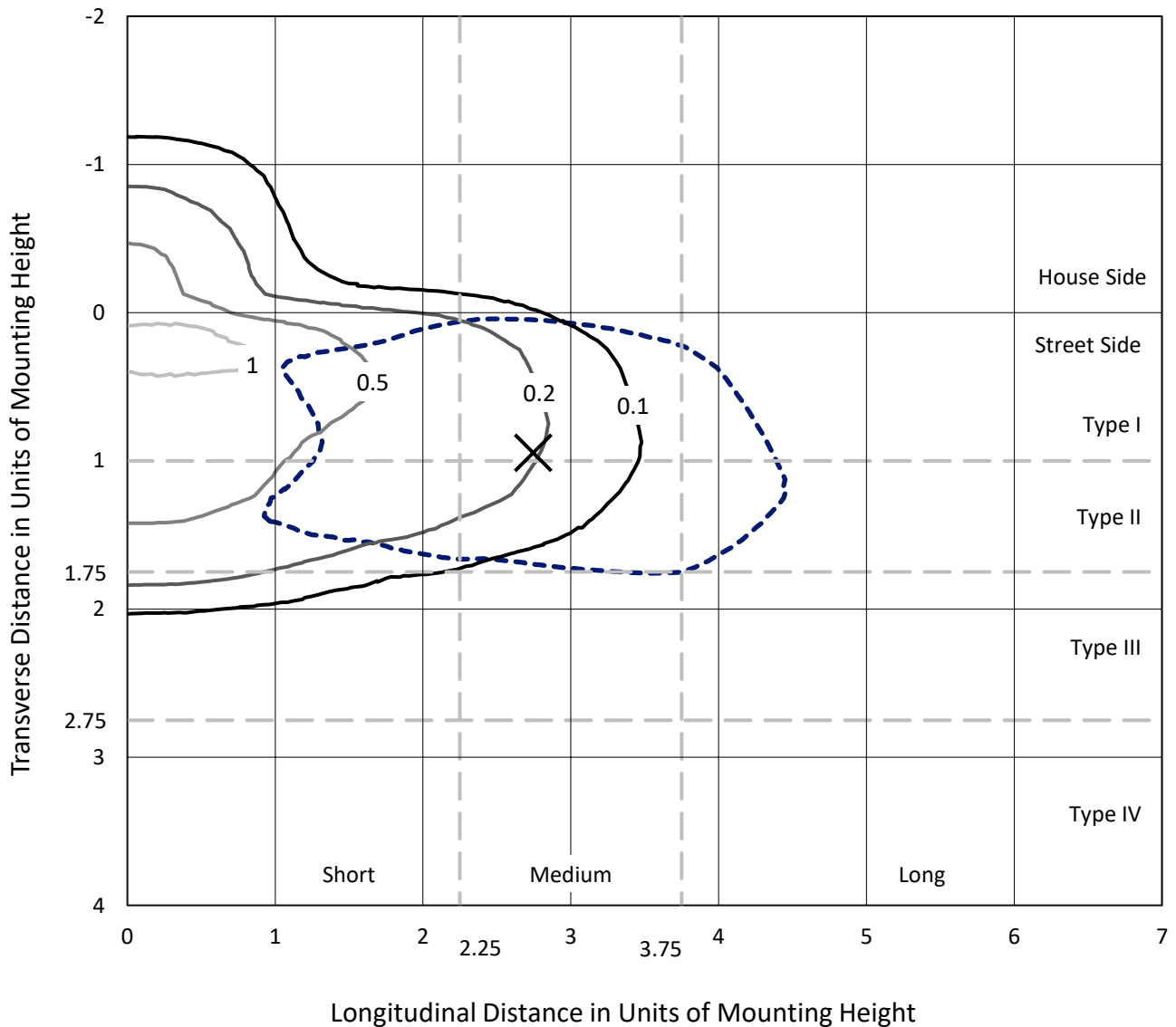
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

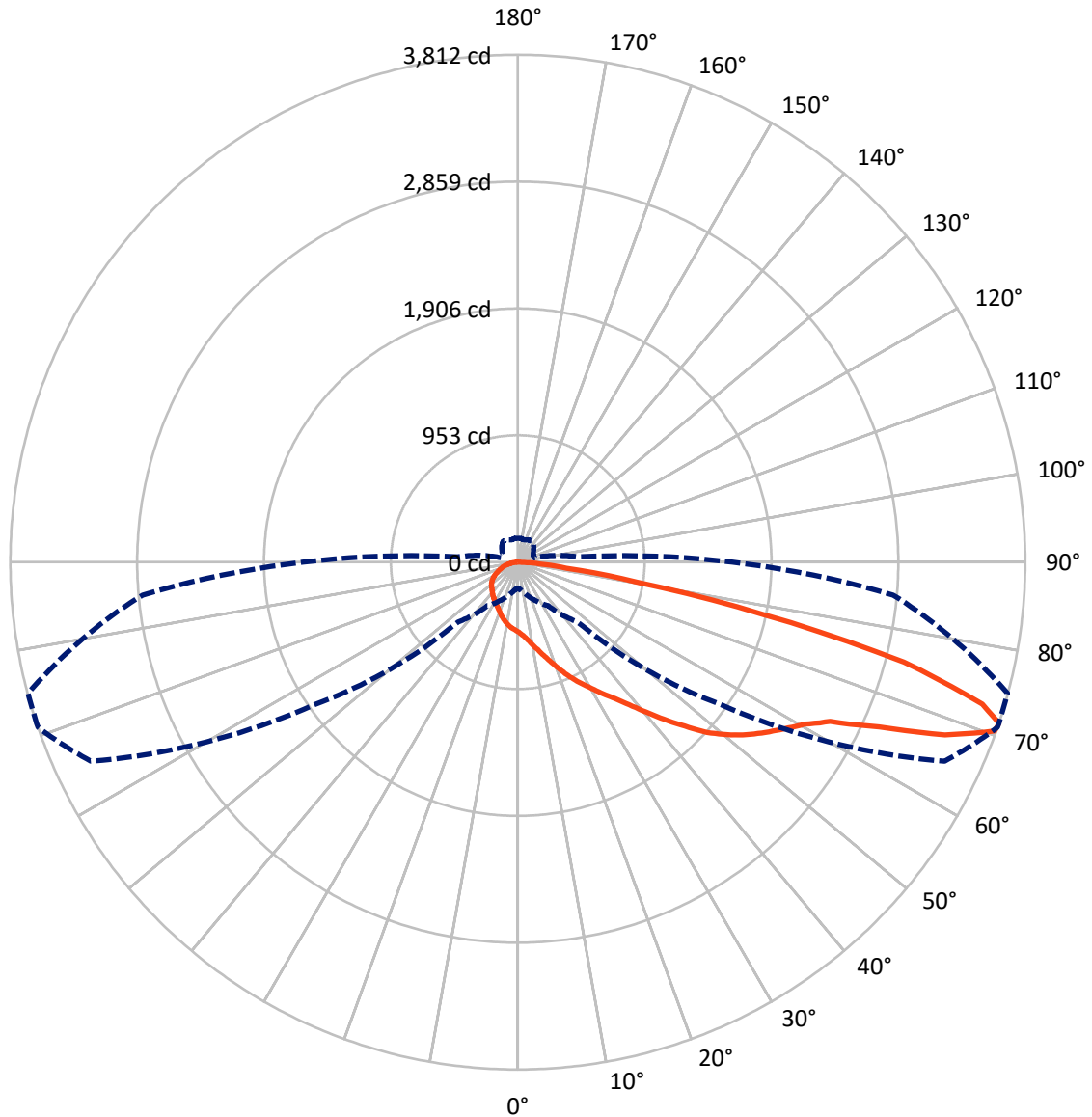
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.6	0.0	765.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	3491.4	0.0	3491.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	4257.0	0.0	4257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.2
10°-20°	170.4	4.0
20°-30°	297.8	7.0
30°-40°	443.0	10.4
40°-50°	652.7	15.3
50°-60°	913.8	21.5
60°-70°	1022.1	24.0
70°-80°	624.3	14.7
80°-90°	80.3	1.9
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°	4257.0	100.0
0°-180°	4257.0	100.0

Coefficient of Utilization



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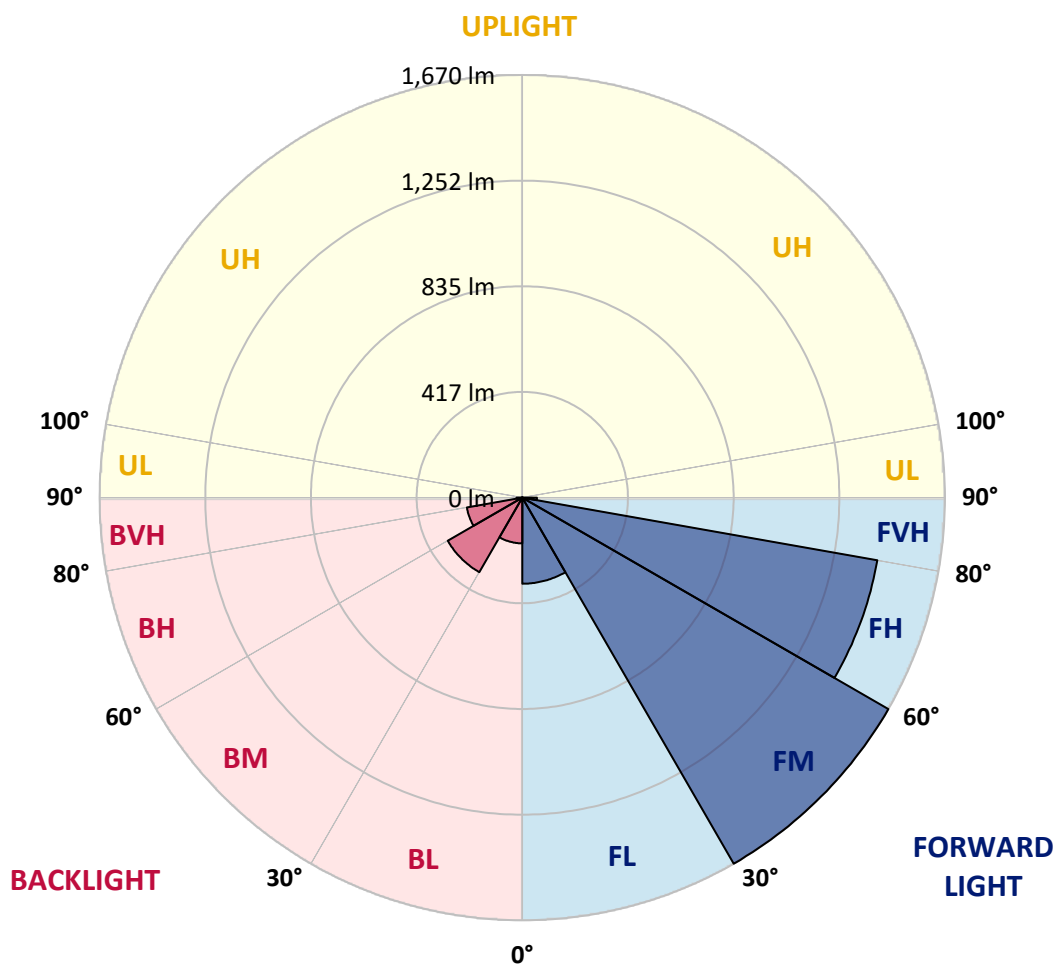
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.1	8.0			
FM (30°-60°)	1669.5	39.2			
FH (60°-80°)	1424.0	33.4			G1/1800
FVH (80°-90°)	57.8	1.4			G1/100
BL (0°-30°)	180.6	4.2	B1/500		
BM (30°-60°)	340.0	8.0	B1/1000		
BH (60°-80°)	222.4	5.2	B1/500		G1/500
BVH (80°-90°)	22.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	580.0	577.2	577.4	573.5	568.3	562.7	554.8	547.7	542.1	538.8	529.2
5°	642.7	639.9	636.4	627.8	624.0	610.2	592.7	576.7	564.6	557.8	538.6
7.5°	693.5	692.8	691.9	686.9	677.4	658.2	643.2	615.6	597.6	584.7	551.9
10°	724.8	726.0	726.7	727.7	723.7	713.6	693.0	658.2	635.2	618.9	569.3
12.5°	740.8	741.9	745.9	754.6	759.9	758.8	741.9	707.8	676.2	654.7	587.7
15°	750.6	752.5	759.5	770.9	789.0	800.4	792.2	760.6	726.0	700.5	609.7
17.5°	761.3	763.5	771.2	787.6	811.2	836.0	844.9	817.7	780.1	749.7	634.3
20°	767.4	770.2	781.2	802.8	830.4	866.4	895.9	881.6	840.4	806.7	662.6
22.5°	777.3	779.6	789.0	811.9	844.9	890.0	946.9	943.8	907.6	864.1	693.7
25°	803.9	807.7	812.4	826.2	858.0	914.1	989.2	1010.3	972.6	924.0	722.3
27.5°	854.2	857.3	857.0	858.9	876.9	935.0	1026.0	1076.0	1037.2	984.6	749.9
30°	911.6	912.7	913.7	909.5	913.4	956.2	1059.7	1141.1	1102.2	1046.8	774.0
32.5°	981.3	983.6	975.7	964.9	961.6	987.8	1087.5	1206.1	1179.2	1110.0	797.8
35°	1063.6	1069.7	1053.6	1034.6	1021.3	1033.2	1124.9	1272.6	1258.1	1190.7	829.4
37.5°	1157.7	1165.2	1150.2	1113.0	1094.1	1097.3	1173.8	1354.7	1357.7	1282.6	876.5
40°	1234.7	1244.5	1245.0	1192.3	1163.6	1167.3	1235.8	1443.1	1478.0	1396.4	931.9
42.5°	1285.5	1295.0	1305.1	1274.2	1244.0	1265.3	1308.1	1539.1	1613.2	1534.4	1009.4
45°	1341.1	1349.8	1355.4	1341.4	1324.5	1379.7	1395.4	1641.1	1757.4	1688.6	1094.1
47.5°	1405.7	1415.3	1420.7	1407.4	1401.0	1480.1	1489.5	1736.3	1911.3	1838.3	1187.6
50°	1491.8	1499.1	1496.3	1487.8	1486.4	1557.1	1579.8	1825.5	2038.4	1999.5	1284.7
52.5°	1599.0	1607.6	1610.7	1598.7	1593.4	1612.1	1652.6	1906.6	2154.0	2138.0	1388.4
55°	1663.8	1677.6	1723.9	1742.6	1755.5	1683.2	1730.9	1996.3	2257.6	2284.0	1499.8
57.5°	1580.7	1598.5	1702.2	1795.7	1916.7	1861.0	1842.1	2089.9	2361.3	2425.6	1633.1
60°	1378.1	1382.1	1515.7	1688.1	1931.5	2089.6	2073.9	2238.7	2473.6	2568.3	1808.8
62.5°	956.0	964.4	1122.4	1397.5	1749.4	2172.0	2468.4	2495.6	2634.5	2781.9	2066.5
65°	493.0	482.0	625.9	878.3	1318.9	1976.4	2788.0	2968.0	2983.6	3116.1	2429.1
67.5°	303.5	308.4	375.8	512.9	779.8	1436.4	2754.6	3545.2	3462.6	3526.2	2765.8
70°	227.9	234.0	280.3	351.0	475.4	821.2	2215.3	3685.1	3800.4	3784.1	2868.3
71°	198.2	204.5	252.7	319.4	399.4	633.8	1866.4	3538.6	3812.1	3809.3	2829.7
72.5°	168.9	172.9	210.6	270.5	336.7	444.3	1402.2	3173.6	3649.5	3742.9	2691.9
75°	132.7	135.7	152.6	206.4	265.1	272.8	752.5	2379.3	2997.4	3175.3	2241.0
77.5°	108.1	110.2	118.9	153.3	204.5	193.3	394.7	1548.7	1877.9	2056.9	1320.1
80°	85.9	88.2	93.4	103.9	153.3	137.8	188.3	784.7	907.1	905.2	526.9
82.5°	66.7	67.4	73.5	76.3	104.8	97.8	102.0	332.2	368.0	380.2	190.2
85°	42.1	44.2	65.0	58.5	62.7	57.3	50.3	132.0	162.6	160.3	76.0
87.5°	12.9	13.6	22.0	24.8	27.8	25.0	18.5	38.8	47.5	51.5	19.0
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°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	525.5	522.9	513.8	506.3	499.3	491.6	485.0	483.2	481.5	480.8	480.6
5°	530.4	522.7	504.7	489.9	478.2	467.5	460.7	457.7	454.6	454.6	455.5
7.5°	537.4	523.4	495.6	473.6	458.8	448.8	443.8	443.4	444.1	444.8	445.0
10°	545.2	522.9	482.2	454.8	441.7	437.1	437.3	441.3	445.0	447.8	448.3
12.5°	552.6	520.1	466.5	437.3	428.9	429.8	436.4	445.3	452.5	456.5	456.7
15°	561.1	515.7	447.6	420.7	417.9	425.1	437.3	450.9	461.9	468.4	469.1
17.5°	568.1	508.2	427.7	404.5	408.0	421.4	438.2	455.8	469.1	477.3	478.7
20°	576.0	498.6	407.1	389.1	399.2	417.2	436.4	455.3	469.1	477.1	478.9
22.5°	582.4	485.0	387.5	376.5	391.2	412.0	430.0	445.3	456.5	460.7	463.5
25°	584.9	467.9	369.0	366.2	384.9	403.6	415.8	424.4	427.9	427.5	428.6
27.5°	583.5	448.3	353.1	358.0	376.9	390.5	396.6	395.9	389.6	383.7	386.5
30°	577.7	424.9	339.7	349.6	366.6	374.1	373.2	364.1	352.1	341.1	341.8
32.5°	567.2	399.6	327.3	340.0	352.1	355.4	349.1	337.2	320.1	305.8	303.7
35°	558.3	375.5	316.3	329.0	337.6	336.0	329.9	314.5	299.0	286.4	284.3
37.5°	556.9	354.9	305.8	316.6	321.5	319.1	311.7	298.6	292.9	283.3	282.2
40°	564.3	340.4	295.0	303.5	305.8	303.9	295.7	288.3	293.4	291.1	291.1
42.5°	584.7	332.7	285.4	290.4	292.2	293.6	287.8	281.5	287.8	277.0	273.5
45°	617.0	332.9	276.8	277.5	283.1	288.0	284.0	274.7	271.4	249.9	245.7
47.5°	664.5	340.9	269.8	265.3	275.4	283.6	278.0	264.4	249.9	235.6	233.0
50°	719.9	355.2	263.5	252.7	265.1	278.0	273.7	257.8	242.9	234.2	232.6
52.5°	781.5	373.2	255.7	238.7	252.5	275.4	274.7	256.9	236.3	230.5	229.1
55°	857.5	391.0	246.1	222.3	241.2	273.3	272.1	249.2	234.9	230.7	230.2
57.5°	946.0	416.7	232.3	205.7	228.4	264.6	262.1	244.5	230.2	227.2	227.0
60°	1088.4	456.7	212.7	190.5	215.3	249.4	252.7	236.5	222.7	222.0	221.8
62.5°	1275.9	512.9	192.3	174.8	200.0	229.8	239.1	225.8	214.8	218.3	218.8
65°	1534.6	560.1	171.3	161.4	183.2	210.8	226.3	215.7	205.9	212.7	212.7
67.5°	1703.3	561.1	152.1	147.6	166.1	194.9	212.7	203.8	194.4	205.9	206.4
70°	1668.2	491.6	136.2	133.1	149.5	177.8	197.7	190.7	179.9	190.2	186.5
71°	1611.6	453.0	129.9	127.5	143.0	169.6	190.7	184.8	174.1	180.9	178.8
72.5°	1521.3	393.3	119.6	120.0	133.1	159.3	180.9	174.8	164.0	167.8	167.1
75°	1285.9	343.5	102.2	104.4	114.4	141.8	161.2	156.5	145.5	145.5	144.8
77.5°	803.9	240.1	84.9	86.1	97.1	121.4	138.5	134.5	124.0	120.5	119.6
80°	300.0	124.0	66.4	67.9	74.6	95.7	114.6	110.9	100.1	96.2	92.4
82.5°	113.5	62.2	48.9	47.7	55.0	73.0	89.8	85.4	77.0	67.4	64.6
85°	42.8	30.9	29.9	29.0	32.3	43.3	55.7	54.7	45.9	39.1	38.4
87.5°	11.2	10.1	11.7	8.7	9.1	8.2	8.4	3.5	1.6	0.7	0.5
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)