

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: P452448

Luminaire Tested: **GALN-SA3B-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8992 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

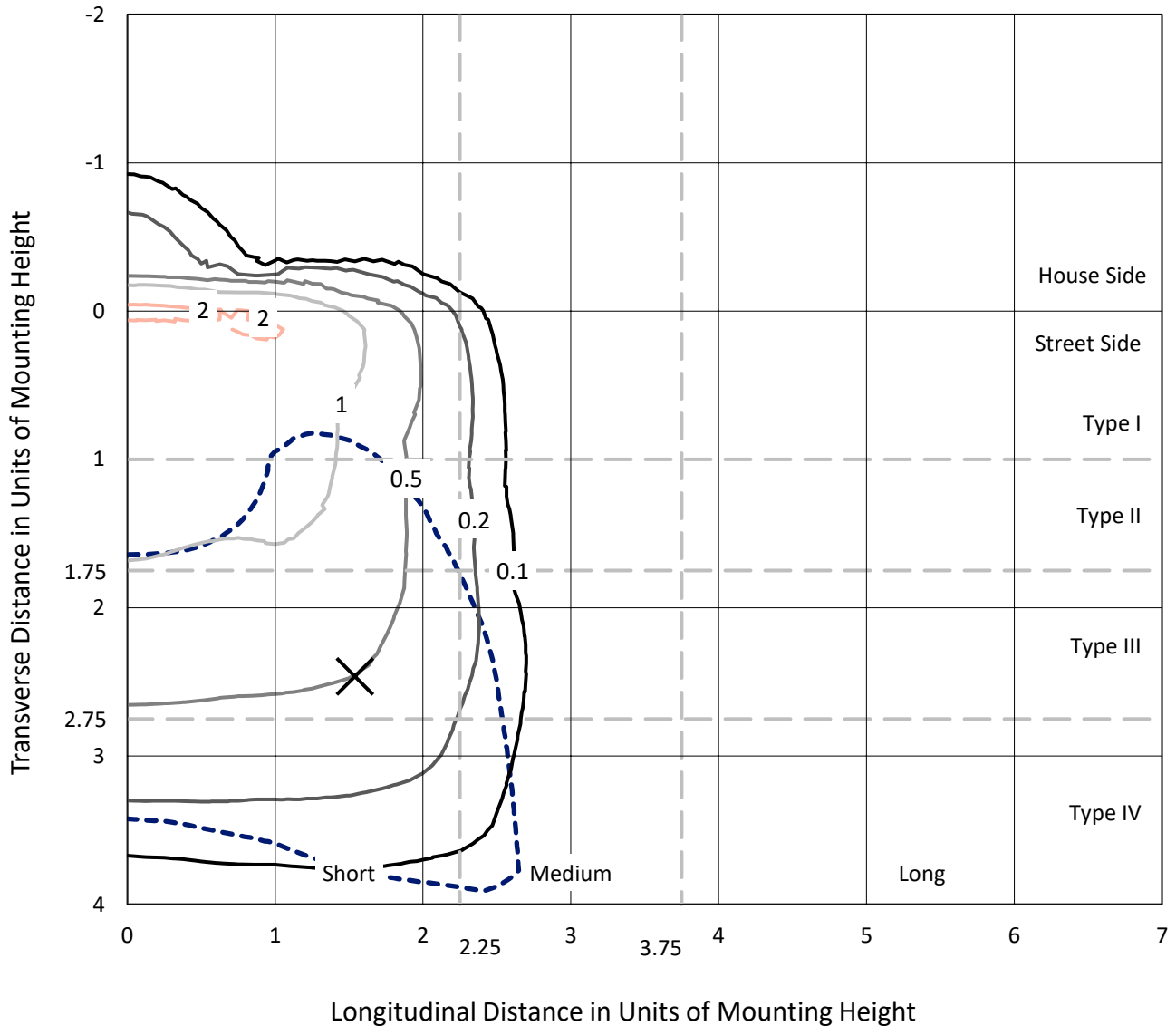
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

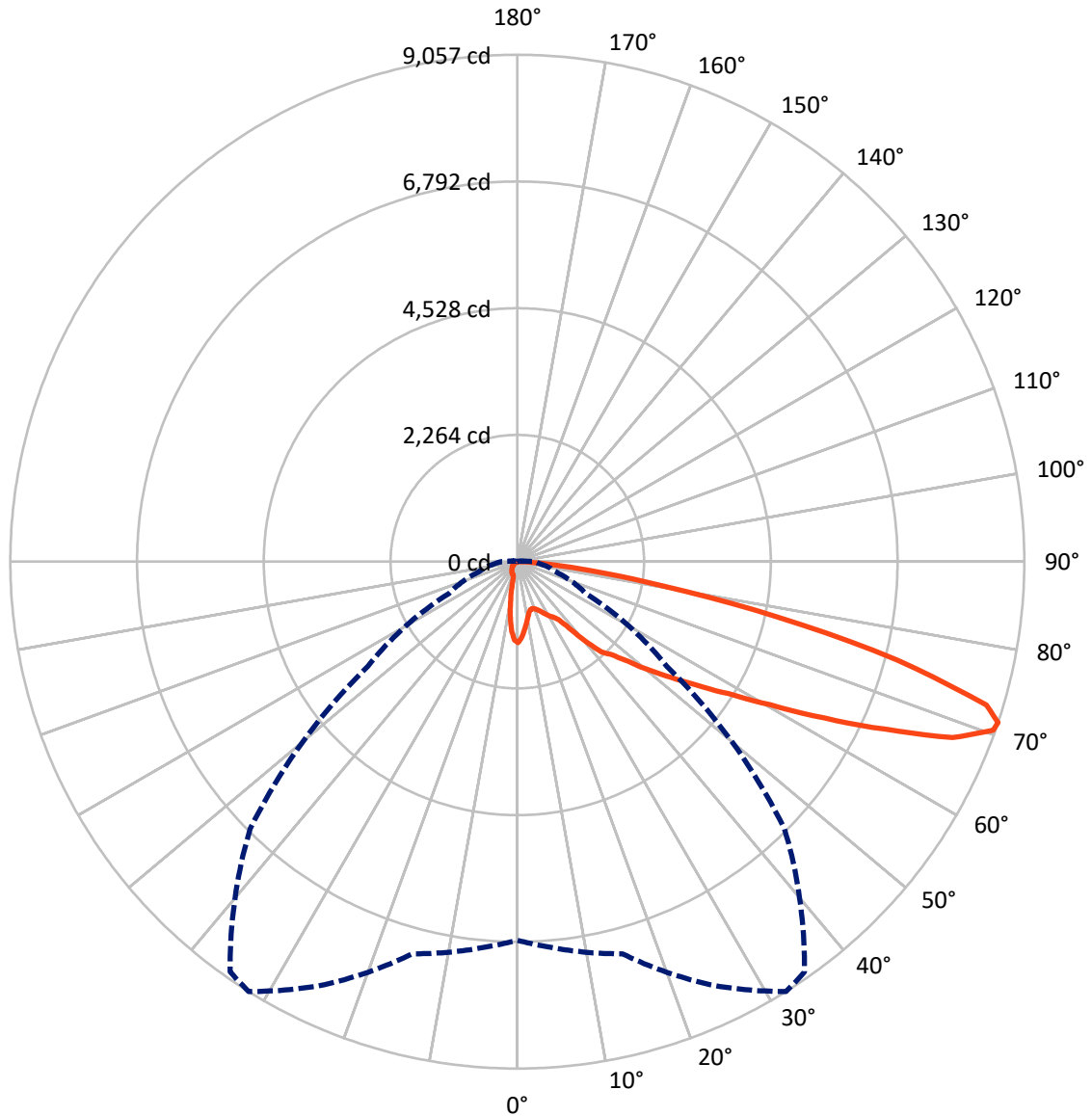
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	753.2	0.0	753.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8238.8	0.0	8238.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	8992.0	0.0	8992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	1.3
10°-20°	255.2	2.8
20°-30°	397.0	4.4
30°-40°	661.4	7.4
40°-50°	1230.3	13.7
50°-60°	1975.3	22.0
60°-70°	2656.9	29.5
70°-80°	1576.4	17.5
80°-90°	121.8	1.4
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°	8992.0	100.0
0°-180°	8992.0	100.0



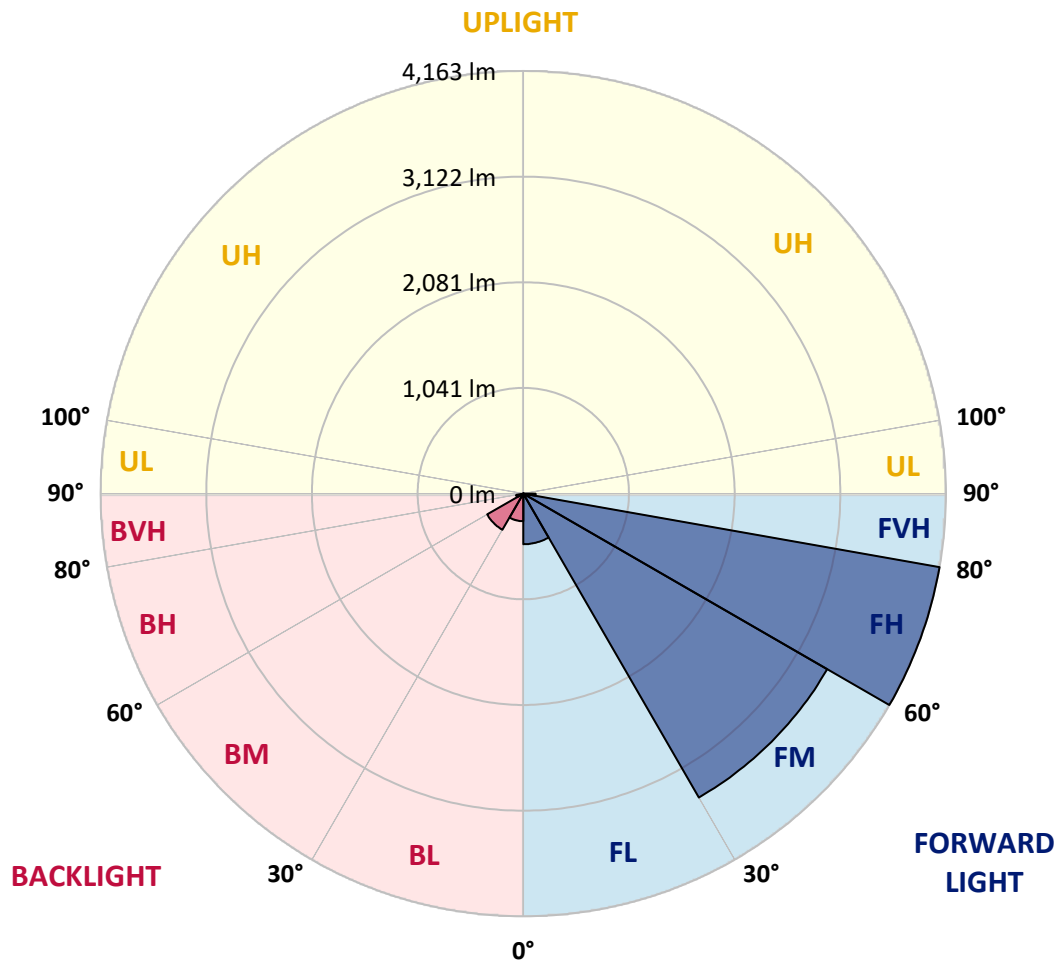
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.4	5.5			
FM (30°-60°)	3456.2	38.4			
FH (60°-80°)	4162.9	46.3			G2/5000
FVH (80°-90°)	121.4	1.3			G2/225
BL (0°-30°)	271.4	3.0	B1/500		
BM (30°-60°)	410.9	4.6	B1/1000		
BH (60°-80°)	70.4	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1341.1	1354.9	1352.9	1357.7	1369.4	1374.3	1387.4	1401.9	1421.9	1435.7	1444.7
5°	1201.0	1211.4	1212.8	1236.9	1248.6	1261.8	1300.4	1342.5	1389.5	1426.7	1451.6
7.5°	1051.2	1056.8	1067.8	1099.6	1129.2	1142.3	1201.0	1274.2	1348.0	1417.8	1462.6
10°	927.7	933.9	953.9	987.7	1015.3	1032.6	1114.0	1205.9	1309.4	1412.9	1478.5
12.5°	857.3	860.7	868.3	898.7	933.9	952.5	1040.2	1145.1	1278.3	1415.0	1505.4
15°	852.4	851.1	842.1	854.5	886.3	905.6	991.2	1103.7	1250.7	1421.9	1537.2
17.5°	878.0	874.5	853.1	853.1	879.4	895.2	970.5	1081.6	1236.9	1437.8	1582.0
20°	917.3	911.8	876.6	873.8	899.4	915.9	982.9	1083.0	1239.7	1467.5	1642.1
22.5°	967.0	960.8	907.7	909.0	936.7	953.2	1018.8	1107.8	1256.9	1504.0	1706.3
25°	1031.9	1025.0	962.2	959.4	988.4	1002.9	1071.9	1152.0	1281.1	1549.6	1790.5
27.5°	1118.2	1103.7	1028.5	1024.3	1055.4	1074.0	1136.1	1211.4	1323.9	1612.4	1903.7
30°	1189.3	1173.4	1101.6	1090.6	1123.7	1138.2	1202.4	1291.4	1408.1	1722.2	2060.4
32.5°	1282.5	1259.0	1174.8	1145.8	1181.0	1199.6	1298.3	1440.5	1533.0	1838.1	2246.7
35°	1492.3	1477.8	1375.0	1273.5	1271.4	1294.9	1439.8	1591.0	1661.4	2019.0	2500.7
37.5°	1792.6	1782.2	1673.1	1537.2	1497.8	1486.8	1611.7	1756.7	1866.4	2267.4	2796.2
40°	2141.1	2117.0	2016.9	1901.6	1850.5	1818.1	1814.6	2003.1	2134.2	2605.0	3104.0
42.5°	2391.0	2346.8	2225.3	2217.1	2206.0	2172.2	2074.2	2363.4	2480.0	2968.0	3433.3
45°	2653.3	2586.3	2405.5	2374.4	2370.3	2368.2	2466.2	2790.0	2856.9	3361.5	3771.5
47.5°	2856.9	2803.8	2655.4	2641.6	2658.8	2705.7	2984.6	3242.8	3228.9	3712.1	4055.2
50°	3128.2	3088.1	2923.2	2949.4	3038.4	3115.1	3569.2	3736.3	3534.7	3988.2	4261.5
52.5°	3448.4	3374.6	3221.4	3292.4	3429.1	3556.8	4189.8	4168.4	3749.4	4196.0	4415.5
55°	3725.9	3673.5	3621.0	3694.9	3899.2	4058.6	4750.2	4492.1	3905.4	4363.0	4483.1
57.5°	4195.3	4182.9	4129.0	4204.3	4452.1	4617.7	5252.0	4743.3	4005.5	4450.0	4403.7
60°	4889.7	4869.6	4769.6	4865.5	5188.5	5448.8	5714.5	4969.0	4028.2	4416.2	4175.3
62.5°	5724.9	5656.5	5570.9	5712.4	6155.6	6270.1	6150.0	5102.9	3943.3	4147.0	3624.5
65°	6504.8	6434.4	6436.5	6734.7	7217.2	7295.2	6658.1	5082.9	3694.9	3472.6	2673.3
67.5°	7101.9	7090.2	7174.4	7756.2	8387.1	8333.3	7112.2	4783.4	2958.4	2250.9	1420.5
70°	7132.3	7155.0	7396.6	8378.8	9019.4	8933.8	7073.6	3888.1	1844.3	1035.4	559.8
71°	6765.0	6918.3	7252.4	8359.5	9056.6	8945.5	6747.8	3256.6	1352.9	722.0	403.8
72.5°	5764.9	5845.6	6567.6	7867.4	8761.9	8524.5	5921.6	2282.6	866.3	441.8	231.9
75°	3175.1	3373.9	4398.2	6172.1	7008.0	6799.6	3859.1	1084.4	432.1	241.6	95.9
77.5°	1511.6	1473.0	2146.0	3670.7	4751.6	4740.6	1944.4	481.8	251.9	163.6	48.3
80°	432.1	485.9	821.4	1744.9	2638.1	2667.1	746.8	232.6	174.6	127.7	24.8
82.5°	130.5	133.2	301.6	771.7	1312.1	1236.9	280.2	118.7	125.6	101.5	14.5
85°	22.8	28.3	89.0	272.0	500.4	379.6	70.4	56.6	82.8	67.0	8.3
87.5°	1.4	2.1	29.7	31.1	44.2	25.5	12.4	8.3	17.9	17.9	4.8
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°	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1450.9	1455.0	1452.3	1446.1	1435.7	1423.3	1406.7	1392.9	1381.2	1375.0	1382.6
5°	1459.9	1465.4	1451.6	1420.5	1373.6	1322.5	1264.5	1219.7	1184.5	1173.4	1169.3
7.5°	1473.7	1477.1	1439.8	1370.8	1271.4	1150.6	1045.0	956.0	887.0	866.3	835.9
10°	1491.6	1489.5	1419.1	1290.7	1116.1	934.6	771.0	649.5	557.7	524.6	521.8
12.5°	1519.2	1508.2	1392.9	1181.7	931.1	693.7	491.5	384.5	326.5	307.2	303.0
15°	1553.7	1527.5	1351.5	1054.0	713.0	448.0	303.0	270.6	263.0	261.6	260.2
17.5°	1594.5	1553.0	1297.0	897.3	501.1	290.6	253.3	252.6	253.3	251.9	251.2
20°	1649.7	1580.0	1232.1	711.6	331.3	245.0	241.6	241.6	242.3	241.6	241.6
22.5°	1708.3	1611.7	1152.0	543.2	249.9	232.6	231.9	233.3	234.7	234.0	234.0
25°	1780.8	1653.1	1046.4	372.0	223.6	222.3	222.9	225.7	228.5	229.2	228.5
27.5°	1885.7	1704.2	933.2	256.1	205.0	206.4	213.3	220.2	224.3	225.0	225.0
30°	2003.8	1760.8	785.5	207.8	189.8	189.8	198.1	211.2	220.2	221.6	222.3
32.5°	2155.6	1826.4	621.9	187.1	175.3	173.9	181.5	197.4	214.0	218.8	218.8
35°	2343.4	1903.7	462.5	173.9	165.0	161.5	165.7	178.8	200.2	214.0	215.4
37.5°	2563.6	1976.8	338.2	162.2	155.3	150.5	153.2	163.6	180.8	201.6	207.1
40°	2767.2	2041.7	252.6	152.5	145.6	142.2	144.3	149.1	163.6	182.9	186.4
42.5°	2989.4	2092.1	200.9	142.2	136.0	134.6	134.6	136.7	146.3	157.4	158.1
45°	3211.0	2110.1	168.4	129.8	125.6	127.0	126.3	124.9	129.1	127.7	127.7
47.5°	3369.1	2088.7	139.4	118.0	118.0	120.1	116.7	111.8	109.7	101.5	102.2
50°	3477.4	2010.7	114.6	104.2	109.7	112.5	105.6	98.0	90.4	81.4	79.4
52.5°	3522.3	1871.9	93.9	86.3	97.3	100.8	92.5	83.5	71.8	64.2	62.1
55°	3493.3	1700.8	78.0	70.4	82.1	86.3	78.0	67.6	54.5	46.2	44.9
57.5°	3365.6	1496.4	66.3	55.9	65.6	68.3	62.8	51.8	38.7	30.4	30.4
60°	3144.7	1285.2	53.8	44.2	49.0	53.1	47.6	37.3	26.2	18.6	17.3
62.5°	2696.8	1043.6	43.5	34.5	34.5	38.0	33.1	26.9	16.6	9.7	9.0
65°	1947.2	715.8	34.5	25.5	24.8	24.8	20.7	17.9	9.7	4.1	2.8
67.5°	1058.1	403.8	27.6	19.3	17.3	16.6	13.1	10.4	4.1	0.7	0.0
70°	416.2	155.3	21.4	13.1	11.0	10.4	6.9	4.8	2.8	0.0	0.0
71°	282.3	107.0	18.6	11.0	9.0	7.6	5.5	4.1	2.1	0.0	0.0
72.5°	161.5	66.3	14.5	8.3	6.9	5.5	4.1	2.8	2.1	0.0	0.0
75°	70.4	33.8	9.0	6.2	4.8	3.5	2.8	2.1	0.7	0.0	0.0
77.5°	35.9	18.6	6.2	4.8	2.8	2.1	1.4	0.7	0.0	0.0	0.0
80°	20.0	9.7	4.1	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
82.5°	11.0	5.5	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.4	0.0	0.0	0.0	0.0	0.7	0.7	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)