

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: P594468

Luminaire Tested: **ISS-PA1A-735-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-735-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3880 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

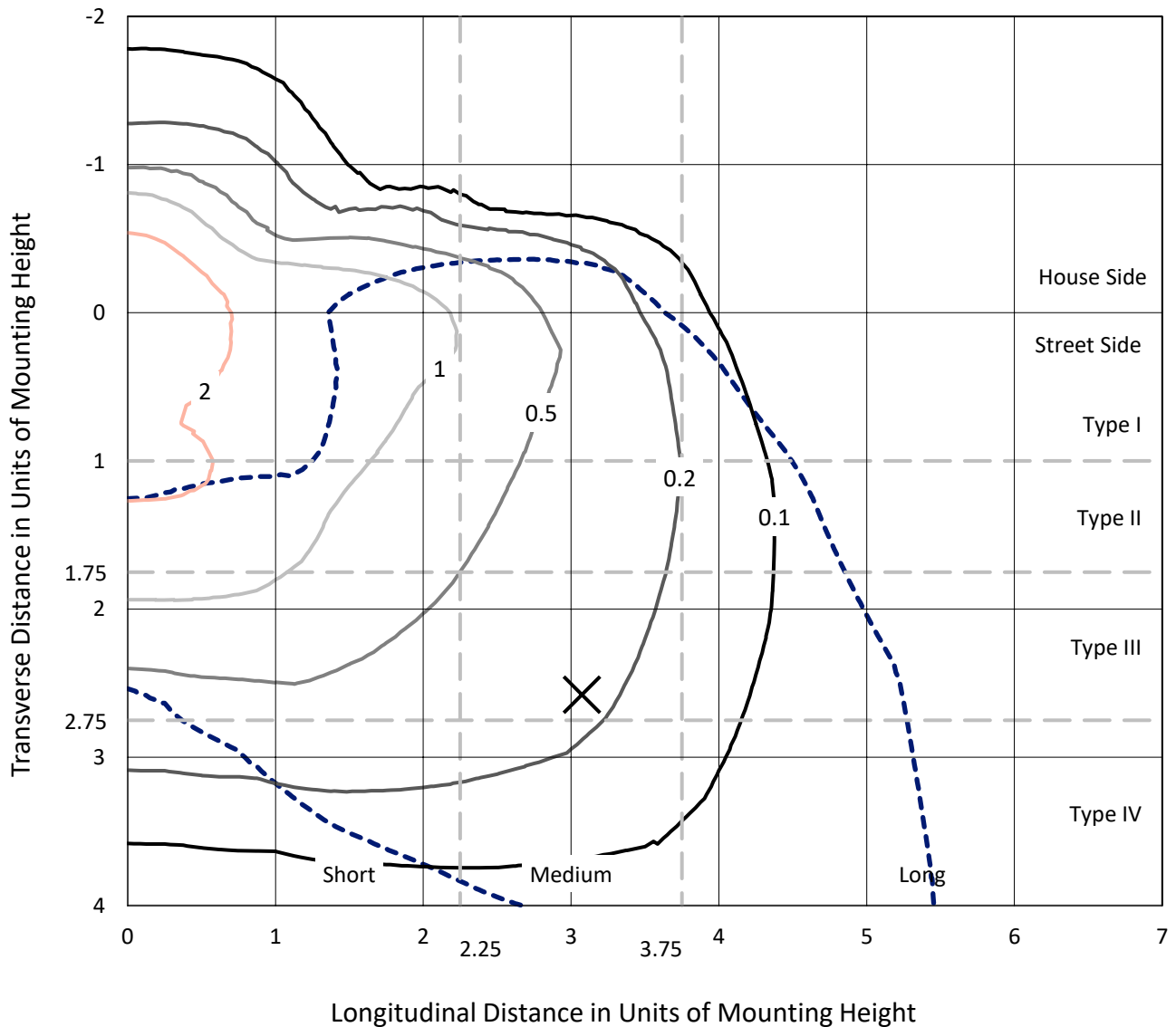
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

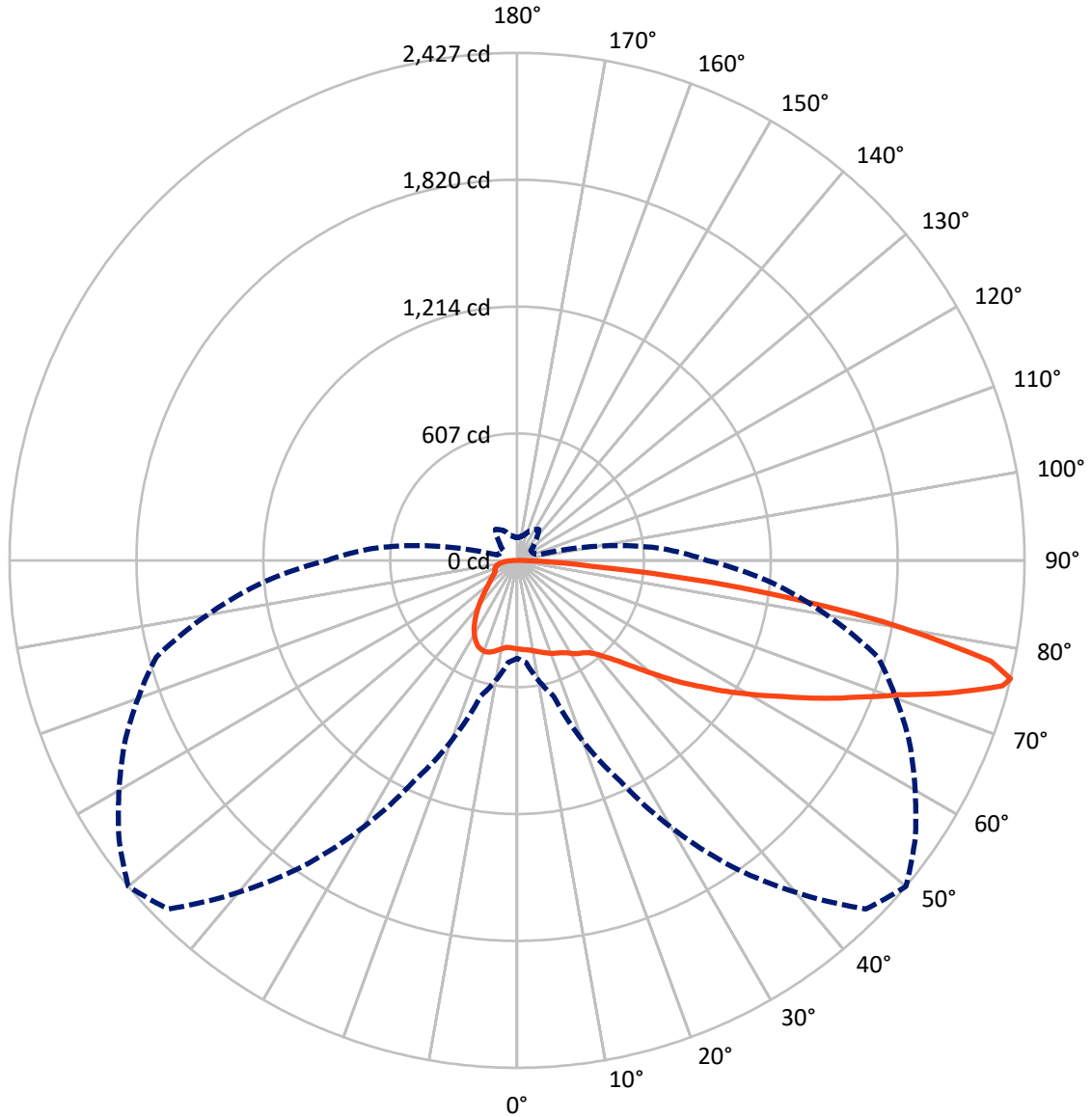
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.6	0.0	887.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2992.4	0.0	2992.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	3880.0	0.0	3880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	1.1
10°-20°	129.1	3.3
20°-30°	218.1	5.6
30°-40°	298.9	7.7
40°-50°	440.3	11.3
50°-60°	692.6	17.9
60°-70°	996.9	25.7
70°-80°	906.5	23.4
80°-90°	156.5	4.0
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°	3880.0	100.0
0°-180°	3880.0	100.0

Coefficient of Utilization

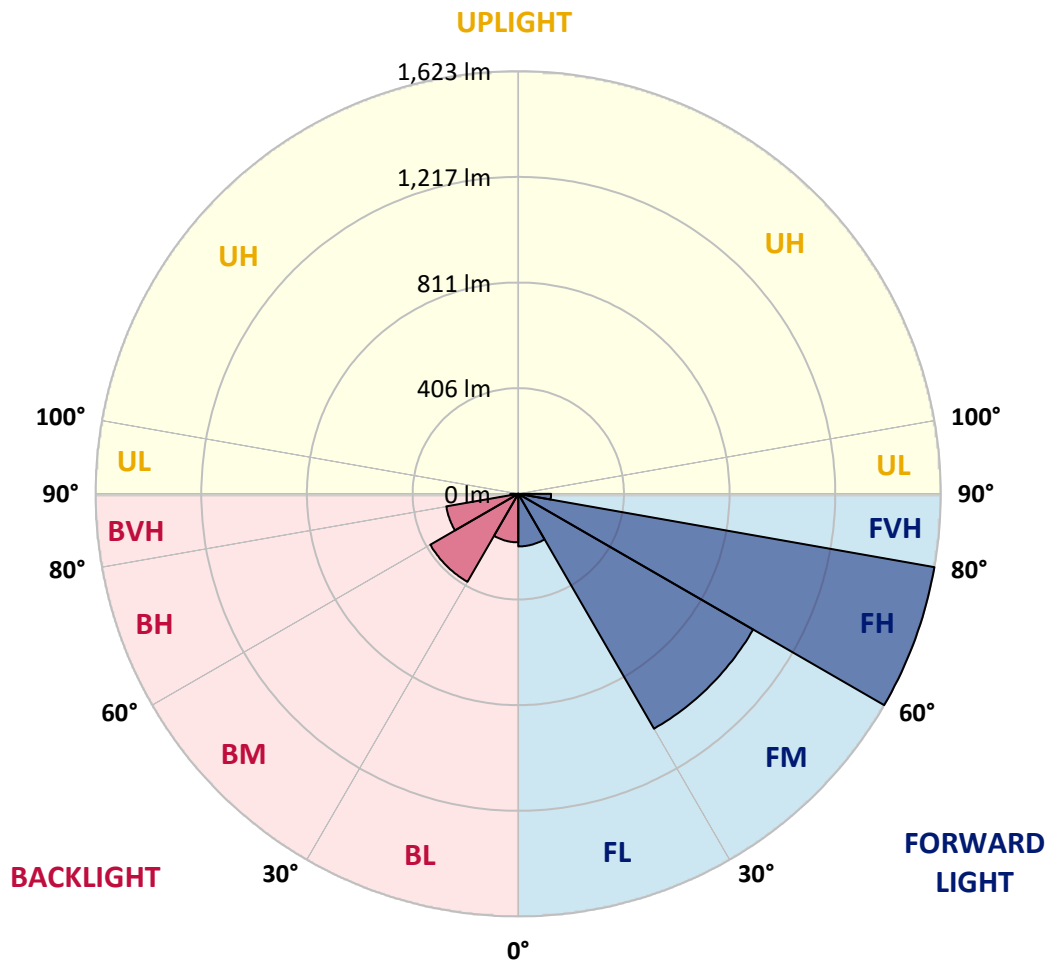


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.9	5.2			
FM (30°-60°)	1041.7	26.8			
FH (60°-80°)	1622.8	41.8			G1/1800
FVH (80°-90°)	126.0	3.2			G2/225
BL (0°-30°)	186.3	4.8	B1/500		
BM (30°-60°)	390.1	10.1	B1/1000		
BH (60°-80°)	280.6	7.2	B1/500		G1/500
BVH (80°-90°)	30.5	0.8			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9
2.5°	432.4	432.4	433.4	431.5	431.5	426.7	426.7	425.8	423.9	422.9	421.0
5°	448.6	448.6	445.7	441.0	438.1	432.4	429.6	427.7	423.9	419.1	414.4
7.5°	465.7	463.8	461.9	454.3	448.6	438.1	433.4	430.5	422.9	416.3	413.4
10°	483.7	480.9	476.1	466.6	458.1	445.7	440.0	436.2	427.7	422.0	415.3
12.5°	494.2	494.2	488.5	477.1	465.7	450.5	447.6	442.9	434.3	426.7	420.1
15°	504.6	505.6	499.9	486.6	473.3	461.9	457.1	454.3	444.8	433.4	424.8
17.5°	515.1	514.1	508.4	493.2	479.0	468.5	465.7	461.9	452.4	441.9	433.4
20°	522.7	520.8	518.9	499.9	485.6	479.0	475.2	472.3	462.8	451.4	440.0
22.5°	524.6	526.5	524.6	501.8	490.4	482.8	481.8	479.0	471.4	460.9	449.5
25°	525.6	526.5	529.4	507.5	497.0	491.3	489.4	487.5	481.8	473.3	458.1
27.5°	530.3	531.3	531.3	511.3	505.6	501.8	499.9	499.9	497.0	486.6	471.4
30°	531.3	532.2	534.1	520.8	518.9	516.0	517.0	516.0	511.3	499.9	482.8
32.5°	537.9	538.9	543.6	526.5	528.4	531.3	532.2	531.3	521.7	512.2	498.0
35°	559.8	558.8	562.6	540.8	538.9	539.8	542.7	541.7	537.9	529.4	519.8
37.5°	630.1	630.1	619.6	574.0	559.8	557.9	559.8	564.5	565.5	557.9	550.3
40°	753.6	747.0	741.3	642.4	596.8	585.4	591.1	594.0	601.6	601.6	601.6
42.5°	881.0	881.9	880.0	748.9	663.4	634.8	635.8	642.4	658.6	661.5	670.0
45°	994.1	1000.7	1015.0	872.4	761.2	697.6	690.9	697.6	720.4	739.4	761.2
47.5°	1082.5	1074.9	1106.2	1001.7	873.4	783.1	766.0	767.9	799.3	829.7	863.9
50°	1158.5	1160.4	1174.6	1133.8	1015.0	880.0	857.2	853.4	898.1	930.4	988.4
52.5°	1244.0	1238.3	1259.2	1249.7	1152.8	998.8	962.7	951.3	999.8	1045.4	1108.1
55°	1284.9	1290.6	1333.4	1357.1	1283.0	1105.3	1065.4	1069.2	1120.5	1168.9	1256.4
57.5°	1357.1	1362.8	1412.2	1461.7	1398.9	1218.4	1183.2	1183.2	1241.2	1295.3	1430.3
60°	1456.0	1456.9	1507.3	1592.8	1500.6	1327.7	1304.8	1303.9	1366.6	1429.3	1635.6
62.5°	1499.7	1511.1	1586.2	1697.3	1633.7	1461.7	1435.0	1442.6	1498.7	1571.9	1864.6
65°	1440.7	1465.5	1622.3	1767.7	1752.5	1601.4	1590.9	1601.4	1635.6	1714.5	2107.0
67.5°	1245.9	1279.2	1555.7	1815.2	1847.5	1762.9	1747.7	1745.8	1767.7	1856.1	2260.0
70°	1145.2	1165.1	1379.9	1833.2	1923.5	1926.4	1926.4	1914.0	1911.2	1975.8	2274.2
72.5°	942.8	963.7	1164.2	1732.5	1995.8	2145.0	2166.8	2121.2	2050.9	2037.6	2035.7
75°	671.9	687.1	860.1	1362.8	1903.6	2355.0	2398.7	2310.3	2114.6	1902.6	1484.5
76°	468.5	490.4	671.9	1164.2	1787.6	2358.8	2427.2	2324.6	2071.8	1786.7	1223.1
77.5°	237.6	245.2	388.7	782.1	1495.9	2250.5	2317.0	2202.0	1885.5	1443.6	776.4
80°	90.3	93.1	138.8	285.1	821.1	1747.7	1773.4	1618.5	1247.8	616.8	279.4
82.5°	47.5	49.4	77.9	140.7	337.4	960.8	1084.4	902.8	489.4	185.3	81.7
85°	23.8	25.7	45.6	85.5	167.3	300.3	347.8	328.8	162.5	70.3	30.4
87.5°	9.5	11.4	22.8	38.0	67.5	58.9	65.6	84.6	52.3	33.3	10.5
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°	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9
2.5°	421.0	420.1	421.0	420.1	421.0	421.0	422.0	420.1	420.1	422.0	419.1
5°	414.4	413.4	414.4	416.3	417.2	419.1	422.9	422.0	423.9	425.8	426.7
7.5°	411.5	410.6	413.4	414.4	417.2	421.0	426.7	430.5	432.4	436.2	434.3
10°	414.4	414.4	418.2	421.0	425.8	430.5	435.3	439.1	443.8	446.7	445.7
12.5°	419.1	418.2	424.8	428.6	435.3	440.0	443.8	445.7	449.5	453.3	452.4
15°	423.9	424.8	434.3	441.9	449.5	451.4	452.4	450.5	452.4	454.3	454.3
17.5°	433.4	434.3	444.8	453.3	460.0	458.1	453.3	448.6	448.6	449.5	450.5
20°	441.0	442.9	455.2	462.8	466.6	459.0	451.4	445.7	442.9	443.8	442.9
22.5°	449.5	453.3	465.7	469.5	463.8	454.3	444.8	437.2	437.2	438.1	438.1
25°	460.0	461.9	470.4	468.5	458.1	443.8	436.2	433.4	432.4	433.4	434.3
27.5°	469.5	470.4	475.2	461.9	441.9	426.7	423.9	424.8	425.8	426.7	427.7
30°	481.8	483.7	479.0	452.4	422.0	404.9	404.9	410.6	412.5	415.3	414.4
32.5°	497.0	498.9	484.7	440.0	396.3	379.2	380.1	388.7	394.4	396.3	397.3
35°	522.7	518.9	488.5	422.9	368.7	347.8	348.8	359.2	366.8	369.7	367.8
37.5°	554.1	553.1	494.2	401.1	334.5	315.5	316.5	321.2	328.8	329.8	330.7
40°	606.3	598.7	503.7	372.5	300.3	282.3	280.4	283.2	282.3	284.2	285.1
42.5°	681.4	661.5	516.0	340.2	269.9	250.9	249.0	244.2	238.5	232.8	230.0
45°	769.8	738.4	531.3	307.0	238.5	221.4	216.7	211.0	199.6	187.2	183.4
47.5°	883.8	824.0	548.4	273.7	209.1	195.8	192.0	183.4	170.1	155.9	153.0
50°	1000.7	924.7	565.5	246.1	185.3	177.7	173.9	165.4	148.3	135.0	132.1
52.5°	1136.6	1024.5	583.5	221.4	164.4	164.4	161.6	148.3	132.1	119.7	117.8
55°	1293.4	1127.1	612.0	197.7	149.2	153.0	149.2	135.9	120.7	112.1	111.2
57.5°	1480.7	1257.3	648.1	172.0	135.9	138.8	138.8	129.2	118.8	113.1	112.1
60°	1668.8	1389.4	671.0	153.0	125.4	128.3	134.0	129.2	122.6	119.7	118.8
62.5°	1849.4	1524.4	632.0	136.9	115.0	123.5	137.8	138.8	132.1	133.1	133.1
65°	1984.4	1627.0	511.3	122.6	108.3	126.4	149.2	150.2	138.8	135.9	135.0
67.5°	2030.9	1655.5	344.0	113.1	104.5	128.3	162.5	158.7	138.8	133.1	130.2
70°	1942.5	1551.0	223.3	104.5	98.8	126.4	173.0	163.5	137.8	129.2	125.4
72.5°	1628.9	1322.9	149.2	96.9	93.1	124.5	179.6	163.5	135.0	122.6	118.8
75°	1130.9	903.8	111.2	87.4	84.6	121.6	181.5	160.6	128.3	115.0	112.1
76°	907.6	677.6	100.7	83.6	80.8	119.7	180.6	157.8	123.5	111.2	108.3
77.5°	573.1	389.6	84.6	77.0	75.1	115.9	176.8	151.1	116.9	104.5	101.7
80°	200.5	142.6	64.6	62.7	63.7	107.4	166.3	137.8	103.6	92.2	88.4
82.5°	79.8	65.6	48.5	48.5	50.4	92.2	150.2	121.6	90.3	76.0	70.3
85°	31.4	28.5	34.2	34.2	36.1	75.1	125.4	95.0	61.8	47.5	45.6
87.5°	9.5	13.3	15.2	16.2	17.1	38.0	71.3	41.8	27.6	20.0	16.2
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)