

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: P633601

Luminaire Tested: GWS-SA2F-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-722-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

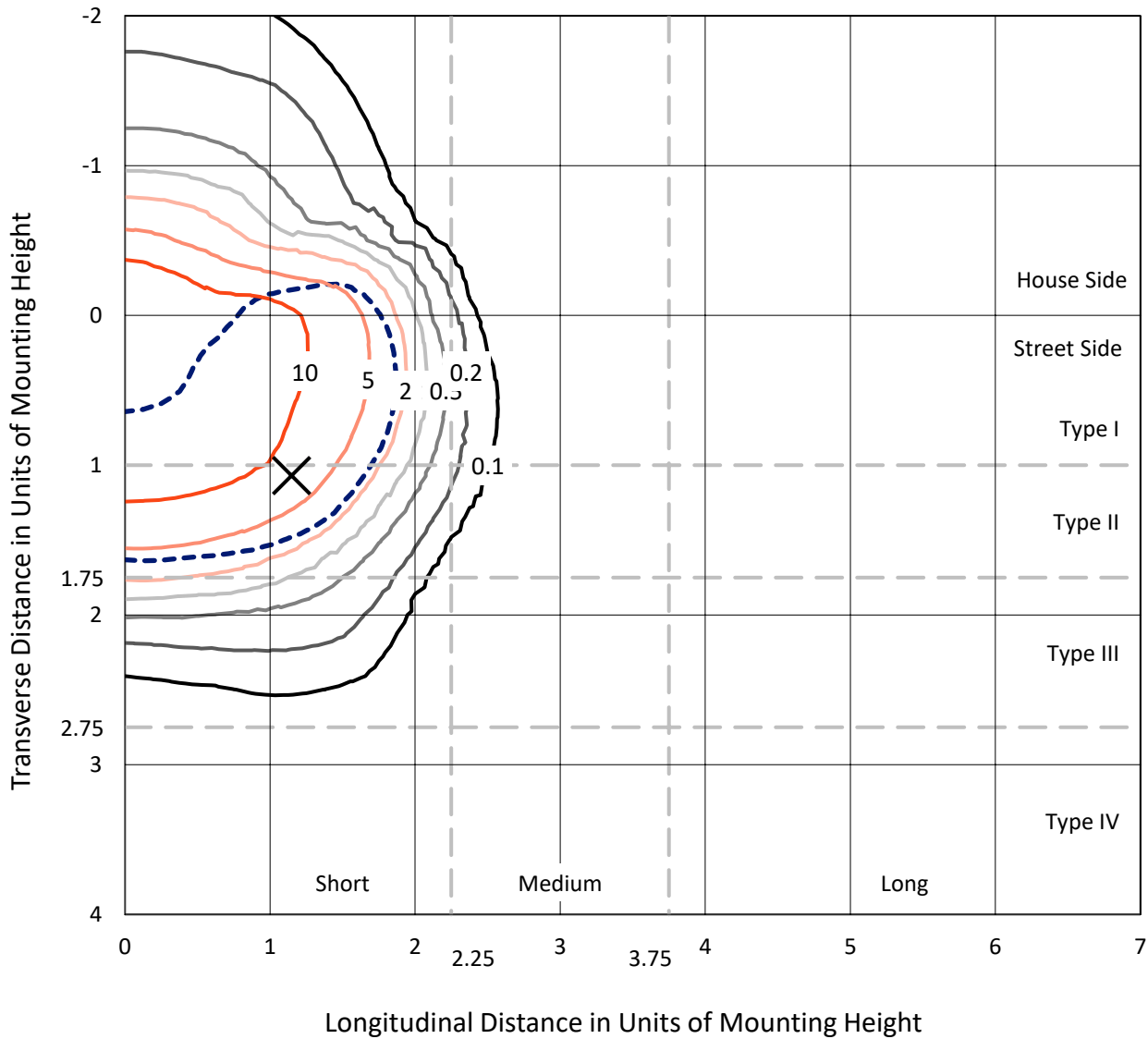
Lumens per Lamp: N/A  
Luminaire Lumens: 7379 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

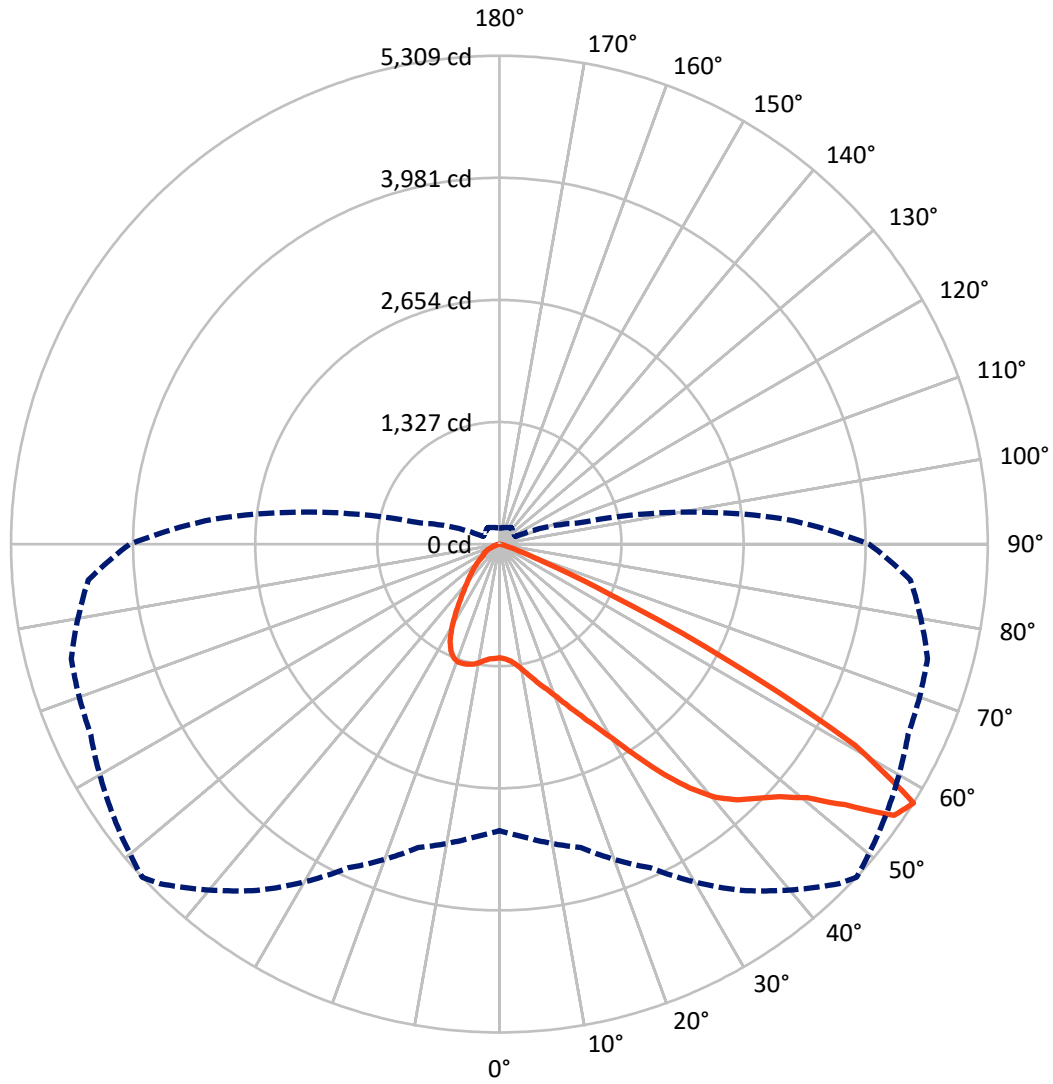
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1600.9	0.0	1600.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	5778.2	0.0	5778.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	7379.0	0.0	7379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	1.7
10°-20°	414.7	5.6
20°-30°	769.9	10.4
30°-40°	1232.5	16.7
40°-50°	1801.7	24.4
50°-60°	2223.6	30.1
60°-70°	743.0	10.1
70°-80°	69.2	0.9
80°-90°	1.4	0.0
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°	7379.0	100.0
0°-180°	7379.0	100.0

**Coefficient of Utilization**



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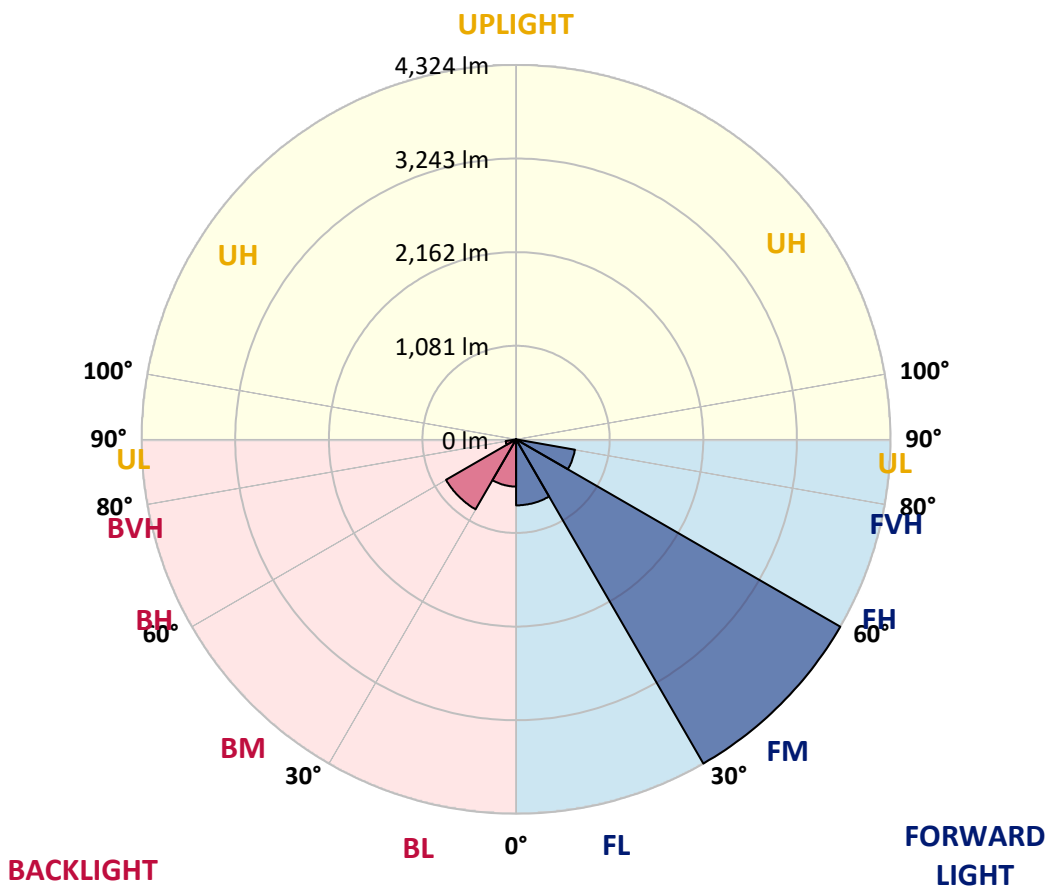
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.6	10.3			
FM (30°-60°)	4324.0	58.6			
FH (60°-80°)	690.5	9.4			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	544.9	7.4	B2/1000		
BM (30°-60°)	933.8	12.7	B1/1000		
BH (60°-80°)	121.7	1.6	B1/500		G1/500
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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3
2.5°	1248.1	1247.2	1246.4	1251.5	1249.8	1249.0	1250.7	1250.7	1250.7	1245.5	1235.3
5°	1278.1	1278.1	1277.2	1282.4	1278.1	1275.5	1276.4	1276.4	1272.9	1263.5	1250.7
7.5°	1325.2	1323.5	1321.8	1326.9	1322.6	1321.8	1323.5	1318.3	1312.3	1296.9	1278.9
10°	1392.9	1392.9	1390.3	1395.4	1392.0	1390.3	1390.3	1386.9	1375.7	1351.8	1325.2
12.5°	1486.2	1482.0	1476.0	1471.7	1470.0	1469.1	1470.0	1464.8	1452.8	1422.0	1385.2
15°	1588.2	1584.8	1575.3	1568.5	1559.1	1557.3	1562.5	1558.2	1546.2	1504.2	1452.0
17.5°	1716.7	1721.0	1697.0	1682.4	1655.0	1653.3	1655.0	1661.9	1653.3	1599.3	1523.1
20°	1826.3	1829.7	1811.8	1801.5	1776.6	1765.5	1768.9	1780.1	1770.6	1707.3	1601.0
22.5°	1943.7	1948.0	1929.1	1907.7	1896.6	1896.6	1909.4	1924.8	1912.0	1828.9	1690.1
25°	2084.2	2087.6	2072.2	2043.9	2024.2	2049.0	2067.9	2109.0	2087.6	1974.5	1795.5
27.5°	2245.2	2246.1	2223.8	2194.7	2184.4	2230.7	2249.5	2312.9	2304.3	2138.1	1906.8
30°	2417.4	2418.3	2413.1	2393.4	2384.0	2444.8	2470.5	2562.2	2556.2	2341.2	2058.5
32.5°	2596.4	2596.4	2605.9	2604.1	2615.3	2714.6	2755.8	2860.3	2854.3	2589.6	2246.9
35°	2776.3	2777.2	2793.5	2834.6	2880.8	3012.7	3066.7	3193.5	3179.8	2886.8	2487.6
37.5°	2981.1	2972.5	2994.8	3056.4	3159.2	3311.7	3363.1	3483.9	3468.5	3190.9	2802.0
40°	3227.8	3212.3	3212.3	3284.3	3400.8	3576.4	3620.1	3680.1	3627.8	3436.8	3110.4
42.5°	3500.2	3485.6	3466.8	3530.1	3627.8	3764.9	3800.8	3784.6	3741.7	3668.9	3461.6
45°	3776.0	3753.7	3766.6	3805.1	3861.7	3926.8	3940.5	3865.1	3845.4	3865.9	3752.0
47.5°	3985.9	3970.5	4002.1	4056.1	4102.4	4111.8	4102.4	3997.9	3996.2	4069.0	3953.3
50°	4056.1	4057.8	4145.2	4263.4	4337.9	4345.7	4332.8	4212.9	4196.6	4218.0	4062.1
52.5°	4063.0	4069.8	4197.5	4422.8	4625.8	4718.3	4708.0	4578.7	4419.3	4396.2	4226.6
55°	3897.6	3937.9	4116.1	4445.0	4876.8	5172.3	5206.6	4959.0	4722.6	4702.9	4580.4
57.5°	3115.5	3197.8	3412.8	3881.4	4596.6	5219.4	5308.5	5130.3	4901.6	4817.7	4485.3
60°	1862.3	1964.2	2170.7	2745.5	3498.5	4290.0	4443.3	4468.2	4362.8	4120.4	3441.1
62.5°	799.2	790.7	1045.1	1485.4	2080.7	2726.6	2796.0	2904.0	2995.6	2742.1	2088.5
65°	274.1	298.1	414.6	669.9	1041.7	1266.1	1327.8	1424.6	1554.8	1283.2	765.0
67.5°	169.6	179.9	239.0	395.8	561.9	553.4	526.0	510.5	496.8	340.1	209.9
70°	123.4	131.9	167.9	272.4	377.8	265.6	230.4	186.7	207.3	191.0	149.1
72.5°	83.1	89.9	115.6	165.3	193.6	129.4	119.9	136.2	164.5	156.8	121.6
75°	49.7	54.0	66.0	80.5	78.8	66.8	67.7	95.9	125.9	117.4	86.5
77.5°	34.3	36.0	43.7	52.3	38.5	20.6	18.8	26.6	42.8	42.8	29.1
80°	8.6	11.1	11.1	6.9	6.0	5.1	5.1	7.7	12.0	8.6	4.3
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
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°	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3
2.5°	1241.2	1231.0	1237.8	1236.1	1241.2	1243.0	1235.3	1233.5	1234.4	1224.1	1220.7
5°	1253.2	1241.2	1244.7	1241.2	1247.2	1252.4	1249.8	1253.2	1257.5	1249.8	1246.4
7.5°	1278.9	1266.9	1266.1	1261.0	1269.5	1272.9	1272.1	1281.5	1290.1	1284.9	1279.8
10°	1323.5	1307.2	1305.5	1301.2	1303.8	1306.4	1296.9	1298.6	1306.4	1300.4	1297.8
12.5°	1378.3	1358.6	1354.3	1344.0	1344.0	1331.2	1310.6	1306.4	1312.3	1308.1	1303.8
15°	1437.4	1410.9	1404.0	1386.0	1368.9	1344.9	1323.5	1318.3	1322.6	1317.5	1314.1
17.5°	1503.4	1473.4	1451.1	1419.4	1381.7	1353.5	1329.5	1318.3	1311.5	1301.2	1300.4
20°	1568.5	1529.1	1491.4	1440.8	1391.2	1348.3	1308.9	1279.8	1255.0	1239.5	1233.5
22.5°	1643.9	1585.6	1524.8	1453.7	1382.6	1317.5	1248.1	1198.4	1155.6	1141.0	1134.2
25°	1724.4	1649.0	1558.2	1465.7	1353.5	1249.0	1154.7	1081.1	1024.5	1005.7	998.0
27.5°	1813.5	1709.8	1592.5	1463.1	1293.5	1151.3	1026.2	934.6	878.9	861.8	867.8
30°	1926.5	1788.6	1635.3	1436.6	1203.6	1014.2	867.8	790.7	748.7	732.4	733.3
32.5°	2077.3	1901.7	1697.8	1380.0	1087.9	858.3	729.8	673.3	645.0	623.6	621.9
35°	2293.2	2073.9	1756.1	1289.2	947.4	719.6	626.2	581.6	542.2	517.4	521.7
37.5°	2551.9	2290.6	1787.8	1166.7	789.8	611.6	548.2	502.8	458.3	421.5	425.7
40°	2858.6	2574.2	1785.2	1005.7	645.9	538.0	483.1	430.0	374.3	340.9	344.4
42.5°	3200.3	2842.3	1729.5	835.2	535.4	478.0	420.6	353.8	299.8	279.3	280.1
45°	3496.7	3059.9	1631.9	658.7	450.6	419.7	355.5	287.0	263.0	248.4	247.6
47.5°	3716.0	3219.2	1492.2	518.3	382.1	366.6	292.1	257.0	238.1	226.1	224.4
50°	3838.5	3274.9	1338.0	406.0	322.9	311.0	261.3	233.0	220.2	212.4	210.7
52.5°	4003.0	3341.7	1227.5	320.4	270.7	254.4	240.7	216.7	208.2	202.2	199.6
55°	4263.4	3471.0	1131.6	254.4	225.3	221.9	227.0	207.3	202.2	192.7	189.3
57.5°	4018.4	3118.1	878.9	197.0	190.2	203.0	219.3	197.9	185.0	176.5	173.0
60°	2827.7	2073.0	442.0	158.5	169.6	190.2	206.4	179.0	166.2	167.9	166.2
62.5°	1559.1	1037.4	198.7	132.8	147.3	167.9	176.5	155.0	146.5	161.0	163.6
65°	509.7	352.9	114.8	102.8	116.5	137.1	152.5	147.3	145.6	162.8	167.9
67.5°	156.8	116.5	78.0	73.7	80.5	101.1	128.5	159.3	171.3	176.5	179.0
70°	117.4	91.7	66.8	62.5	66.0	77.1	108.8	132.8	125.1	125.9	124.2
72.5°	94.2	72.8	57.4	54.8	54.8	53.1	57.4	72.0	81.4	85.7	85.7
75°	66.0	51.4	43.7	40.3	31.7	25.7	23.1	23.1	20.6	19.7	18.8
77.5°	22.3	18.8	17.1	13.7	9.4	7.7	6.9	6.0	4.3	2.6	1.7
80°	3.4	2.6	1.7	1.7	1.7	0.9	0.9	0.9	0.0	0.0	0.0
82.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	0.9	0.9	0.9	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)