

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: P594431

Luminaire Tested: **ISC-PA1F-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1F-830-U-T4W-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6879 lumens
Efficiency: N/A
Efficacy: 72.9 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

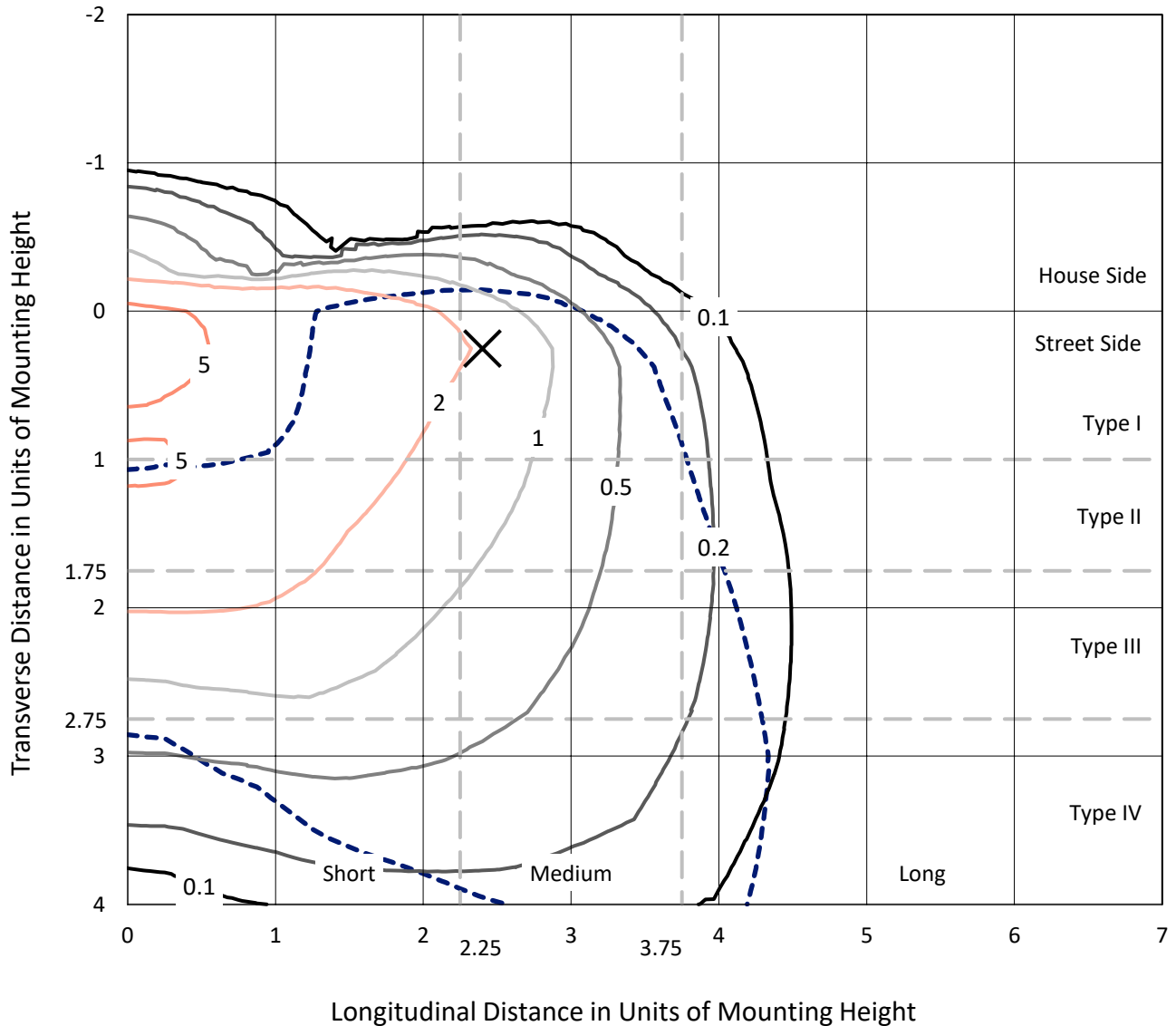
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594431
 CATALOG NUMBER: ISC-PA1F-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

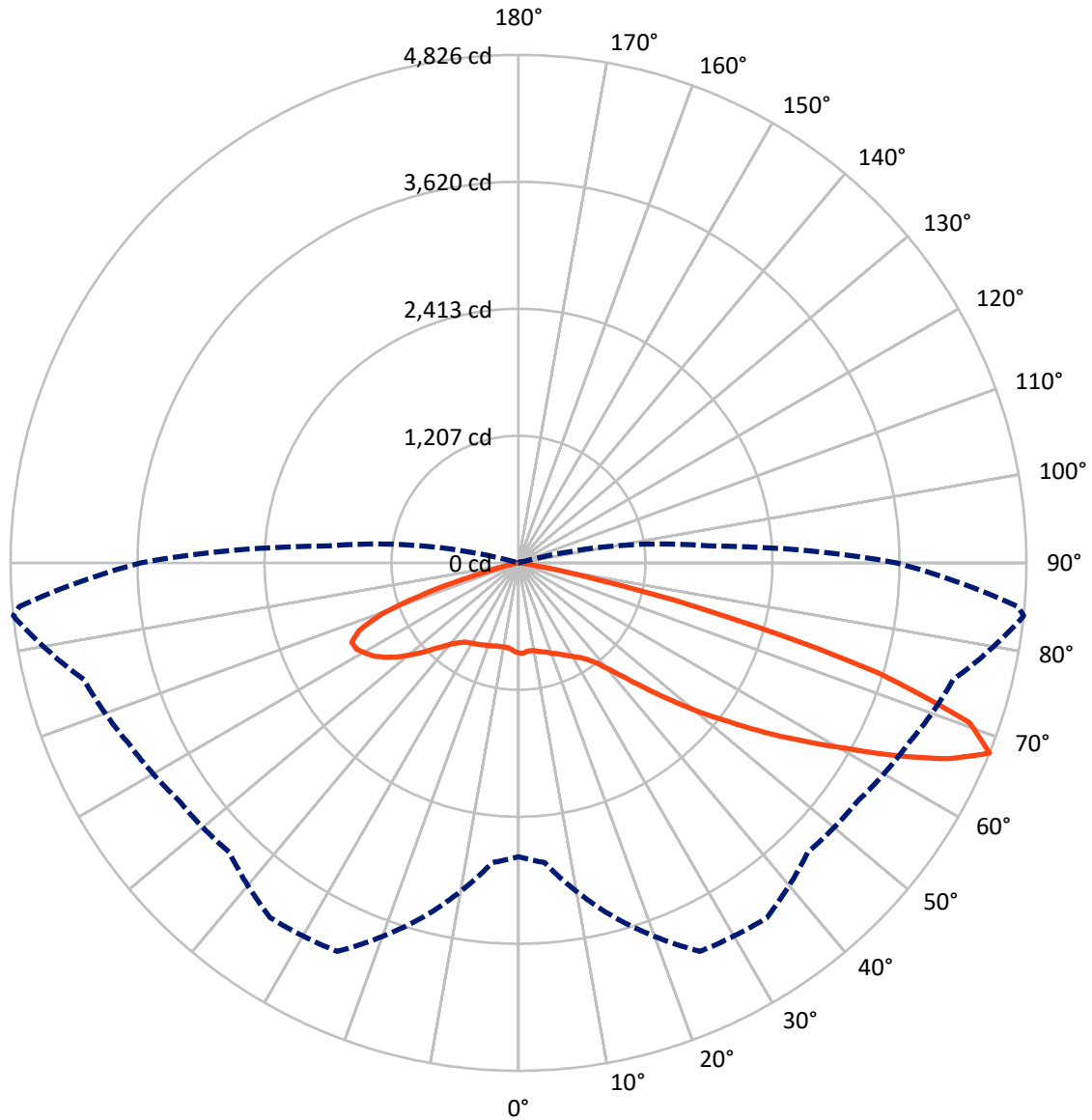
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594431
CATALOG NUMBER: ISC-PA1F-830-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P594431
 CATALOG NUMBER: ISC-PA1F-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	598.9	0.0	598.9
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6280.1	0.0	6280.1
	% Fixture	91.3	0.0	91.3
Total	Lumens	6879.0	0.0	6879.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.1
10°-20°	201.0	2.9
20°-30°	321.9	4.7
30°-40°	463.3	6.7
40°-50°	795.2	11.6
50°-60°	1389.3	20.2
60°-70°	1989.5	28.9
70°-80°	1495.3	21.7
80°-90°	146.8	2.1
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°	6879.0	100.0
0°-180°	6879.0	100.0

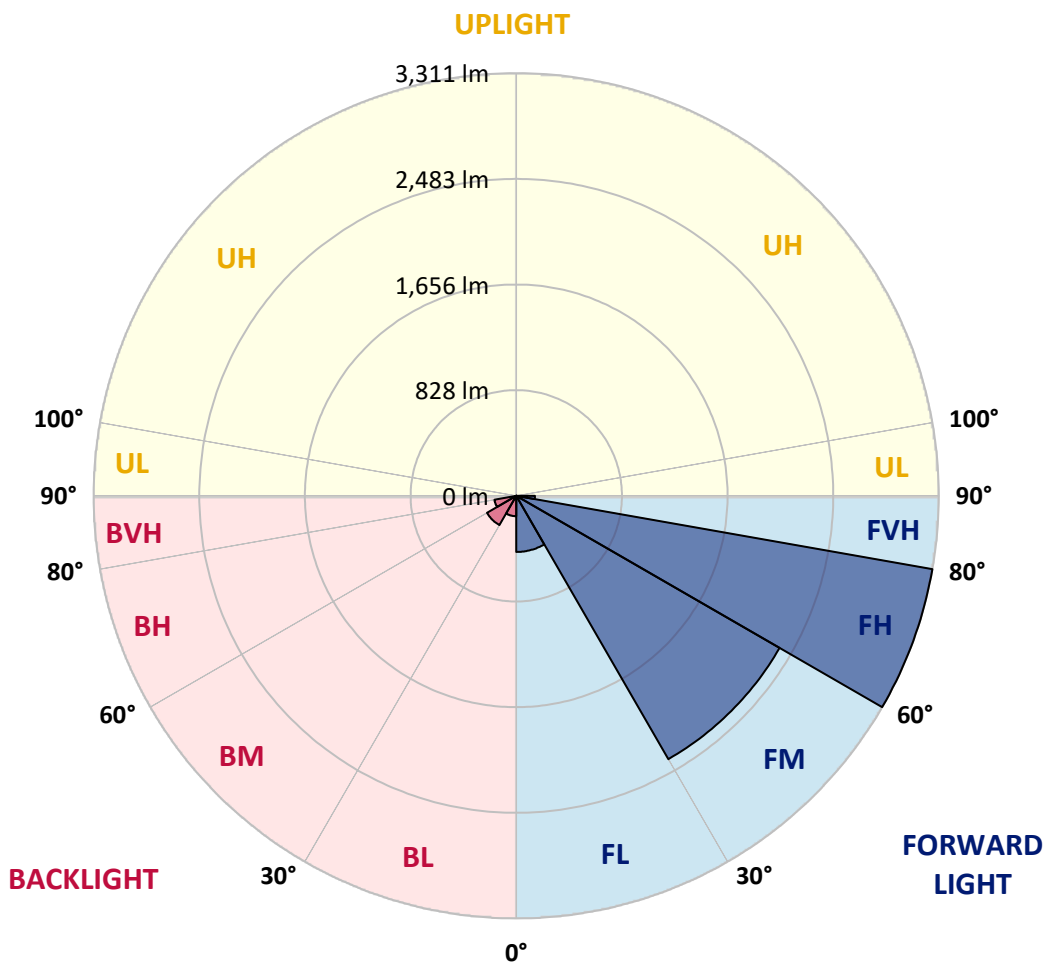


REPORT NUMBER: P594431
 CATALOG NUMBER: ISC-PA1F-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.8	6.4			
FM (30°-60°)	2382.8	34.6			
FH (60°-80°)	3311.2	48.1			G2/5000
FVH (80°-90°)	146.3	2.1			G2/225
BL (0°-30°)	160.0	2.3	B1/500		
BM (30°-60°)	264.9	3.9	B1/1000		
BH (60°-80°)	173.6	2.5	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: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P594431
 CATALOG NUMBER: ISC-PA1F-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0
2.5°	905.8	910.5	912.8	901.2	901.2	891.9	877.9	873.3	866.3	859.4	857.0
5°	952.3	959.2	956.9	943.0	936.0	917.4	898.8	880.3	861.7	845.4	845.4
7.5°	1005.7	1008.0	1001.0	977.8	963.9	938.3	910.5	889.6	866.3	843.1	838.5
10°	1052.1	1049.8	1040.5	1017.3	991.8	959.2	929.0	905.8	877.9	850.1	847.8
12.5°	1084.7	1087.0	1075.4	1042.8	1017.3	980.1	949.9	926.7	894.2	864.0	857.0
15°	1112.5	1119.5	1105.6	1073.0	1035.9	1003.4	980.1	949.9	912.8	877.9	873.3
17.5°	1138.1	1140.4	1128.8	1091.6	1056.8	1028.9	1003.4	975.5	938.3	894.2	889.6
20°	1152.0	1159.0	1152.0	1105.6	1073.0	1052.1	1031.2	1003.4	961.6	919.8	915.1
22.5°	1161.3	1168.3	1165.9	1114.8	1087.0	1070.7	1052.1	1026.6	987.1	938.3	933.7
25°	1165.9	1170.6	1175.2	1124.1	1100.9	1093.9	1077.7	1054.5	1017.3	966.2	961.6
27.5°	1172.9	1177.6	1182.2	1135.8	1126.5	1119.5	1114.8	1096.3	1052.1	998.7	991.8
30°	1184.5	1191.5	1196.1	1156.7	1156.7	1163.6	1163.6	1138.1	1089.3	1033.6	1028.9
32.5°	1198.5	1200.8	1210.1	1177.6	1189.2	1205.4	1200.8	1175.2	1124.1	1073.0	1066.1
35°	1235.6	1235.6	1251.9	1210.1	1224.0	1237.9	1242.6	1224.0	1177.6	1126.5	1124.1
37.5°	1326.2	1326.2	1340.1	1272.8	1270.5	1284.4	1300.7	1300.7	1254.2	1207.8	1203.1
40°	1530.6	1530.6	1530.6	1375.0	1349.4	1365.7	1391.2	1405.2	1365.7	1333.2	1333.2
42.5°	1872.0	1874.3	1839.5	1563.1	1453.9	1481.8	1509.7	1539.9	1519.0	1495.8	1491.1
45°	2225.1	2213.4	2208.8	1839.5	1639.8	1625.8	1660.7	1711.8	1718.7	1704.8	1714.1
47.5°	2466.6	2478.2	2485.2	2183.2	1899.9	1804.7	1837.2	1909.2	1951.0	1948.7	1962.6
50°	2701.2	2708.2	2715.1	2561.8	2243.6	2030.0	2050.9	2148.4	2206.5	2225.1	2234.3
52.5°	2905.6	2887.0	2917.2	2896.3	2608.3	2287.8	2287.8	2399.2	2503.8	2510.7	2508.4
55°	2966.0	2977.6	3068.2	3130.9	2982.2	2603.6	2557.2	2675.6	2787.1	2845.2	2845.2
57.5°	3100.7	3112.3	3221.5	3363.1	3254.0	2914.9	2845.2	2961.3	3082.1	3193.6	3209.8
60°	3277.2	3279.5	3395.6	3611.6	3460.7	3195.9	3137.8	3270.2	3391.0	3581.5	3634.9
62.5°	3372.4	3381.7	3542.0	3825.3	3720.8	3442.1	3428.2	3548.9	3704.6	4039.0	4087.8
65°	3226.1	3286.5	3634.9	3953.1	3932.2	3672.0	3720.8	3818.4	3997.2	4487.3	4533.7
67.5°	2791.8	2859.1	3481.6	4073.8	4115.7	3888.0	3939.1	4080.8	4278.2	4826.4	4761.3
70°	2571.1	2626.9	3110.0	4141.2	4268.9	4129.6	4152.8	4285.2	4343.3	4543.0	4473.3
72.5°	1948.7	2006.7	2631.5	3911.3	4401.3	4382.8	4324.7	4215.5	3871.8	3574.5	3404.9
75°	861.7	929.0	1751.2	3056.5	4073.8	4526.8	4220.2	3609.3	2780.2	2030.0	1881.3
77.5°	380.9	420.4	678.2	1697.8	3061.2	3918.2	3337.6	2406.2	1395.9	754.8	701.4
80°	123.1	127.7	213.7	594.6	1565.4	2594.3	2043.9	1156.7	429.7	176.5	164.9
82.5°	48.8	53.4	102.2	250.8	648.0	1031.2	1003.4	418.1	125.4	46.5	46.5
85°	13.9	16.3	51.1	132.4	229.9	290.3	355.4	139.4	67.4	13.9	13.9
87.5°	4.6	4.6	18.6	41.8	44.1	30.2	67.4	53.4	41.8	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594431
 CATALOG NUMBER: ISC-PA1F-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0
2.5°	852.4	847.8	836.1	826.8	822.2	815.2	805.9	801.3	801.3	799.0	792.0
5°	836.1	829.2	808.3	794.3	782.7	757.2	738.6	715.4	692.1	685.2	692.1
7.5°	829.2	815.2	787.4	759.5	710.7	643.4	599.2	550.5	534.2	513.3	515.6
10°	831.5	815.2	775.7	713.0	617.8	517.9	448.3	383.2	350.7	334.5	336.8
12.5°	838.5	819.9	764.1	650.3	513.3	392.5	285.7	234.6	225.3	225.3	225.3
15°	852.4	824.5	745.6	576.0	401.8	260.1	202.1	197.4	204.4	211.4	213.7
17.5°	866.3	838.5	717.7	499.4	292.6	195.1	188.1	188.1	195.1	202.1	204.4
20°	882.6	852.4	678.2	418.1	209.0	183.5	181.2	178.8	183.5	190.5	192.8
22.5°	908.1	866.3	631.7	322.8	181.2	176.5	171.9	169.6	171.9	178.8	181.2
25°	931.4	884.9	583.0	239.2	169.6	164.9	162.6	160.3	160.3	164.9	167.2
27.5°	959.2	905.8	529.6	178.8	155.6	153.3	151.0	148.6	146.3	151.0	153.3
30°	994.1	924.4	471.5	151.0	141.7	139.4	137.0	134.7	132.4	134.7	137.0
32.5°	1038.2	949.9	404.1	137.0	130.1	123.1	120.8	120.8	118.5	118.5	120.8
35°	1096.3	977.8	332.1	127.7	118.5	111.5	104.5	102.2	102.2	102.2	104.5
37.5°	1182.2	1028.9	262.5	118.5	109.2	97.5	90.6	83.6	83.6	83.6	83.6
40°	1300.7	1084.7	204.4	111.5	102.2	85.9	76.6	67.4	62.7	60.4	62.7
42.5°	1484.1	1168.3	157.9	102.2	97.5	76.6	62.7	51.1	41.8	39.5	41.8
45°	1686.2	1258.9	125.4	95.2	88.3	65.0	48.8	34.8	25.5	23.2	25.5
47.5°	1941.7	1372.7	106.8	85.9	76.6	53.4	34.8	18.6	11.6	13.9	13.9
50°	2187.9	1484.1	97.5	79.0	67.4	44.1	20.9	9.3	4.6	7.0	7.0
52.5°	2459.6	1602.6	90.6	69.7	58.1	32.5	11.6	2.3	0.0	2.3	2.3
55°	2733.7	1709.4	83.6	62.7	46.5	23.2	4.6	0.0	0.0	0.0	2.3
57.5°	3031.0	1800.0	76.6	53.4	34.8	13.9	2.3	0.0	0.0	0.0	0.0
60°	3279.5	1869.7	69.7	46.5	23.2	7.0	0.0	0.0	0.0	0.0	0.0
62.5°	3507.1	1932.4	53.4	34.8	13.9	4.6	0.0	0.0	0.0	0.0	0.0
65°	3658.1	1946.3	37.2	23.2	9.3	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	3590.7	1825.6	23.2	16.3	4.6	2.3	0.0	0.0	0.0	0.0	0.0
70°	3156.4	1532.9	16.3	9.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2208.8	989.4	13.9	7.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0
75°	1165.9	357.7	9.3	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	413.4	79.0	4.6	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	90.6	16.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	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)