

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: STREETWORKS

Report Number: P481570

Luminaire Tested: **IFLD-M-SA4B-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481570
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

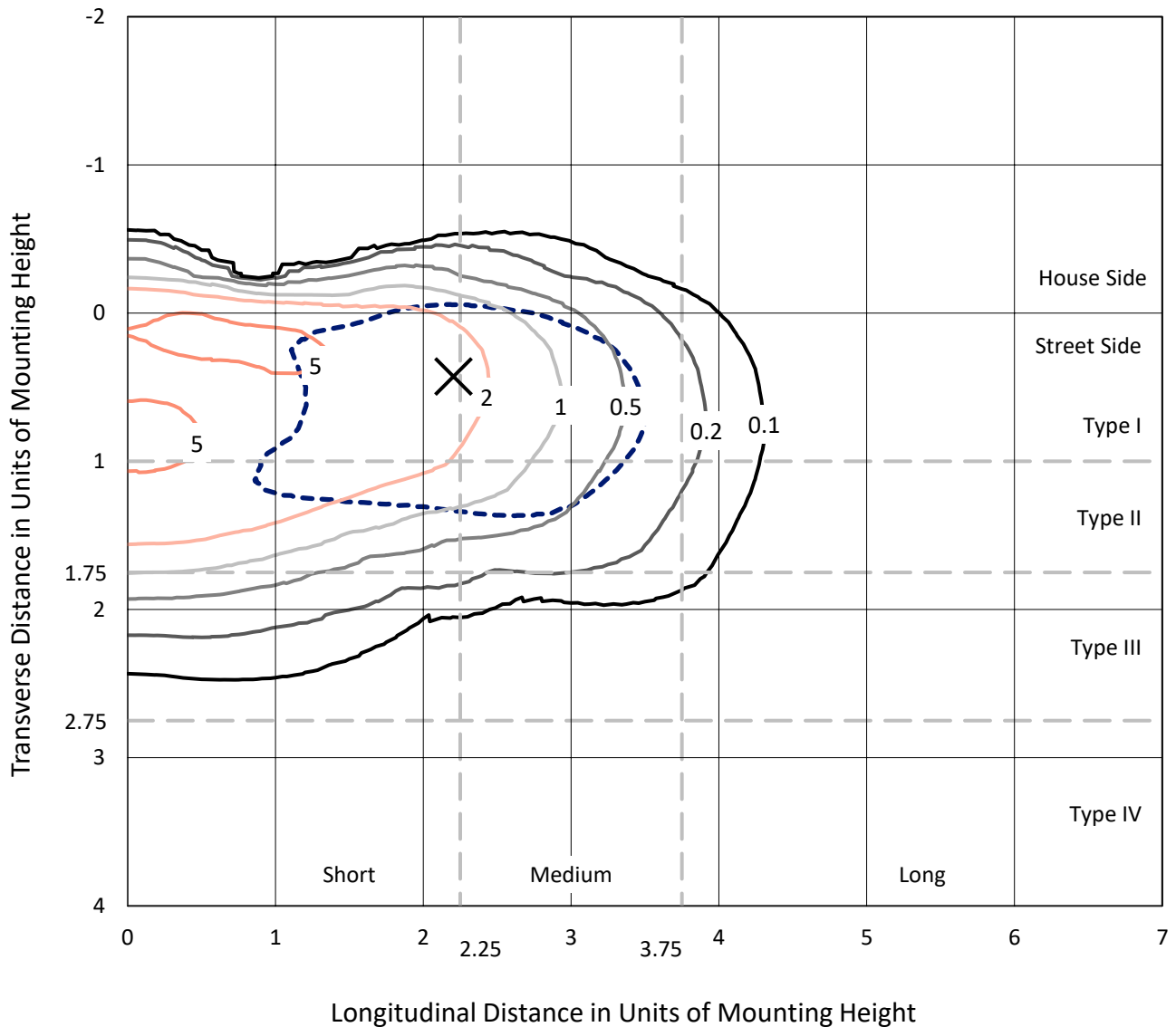
Lumens per Lamp: N/A
Luminaire Lumens: 13755.1 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
Input Voltage (V): 120
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

REPORT NUMBER: P481570
 CATALOG NUMBER: IFLD-M-SA4B-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

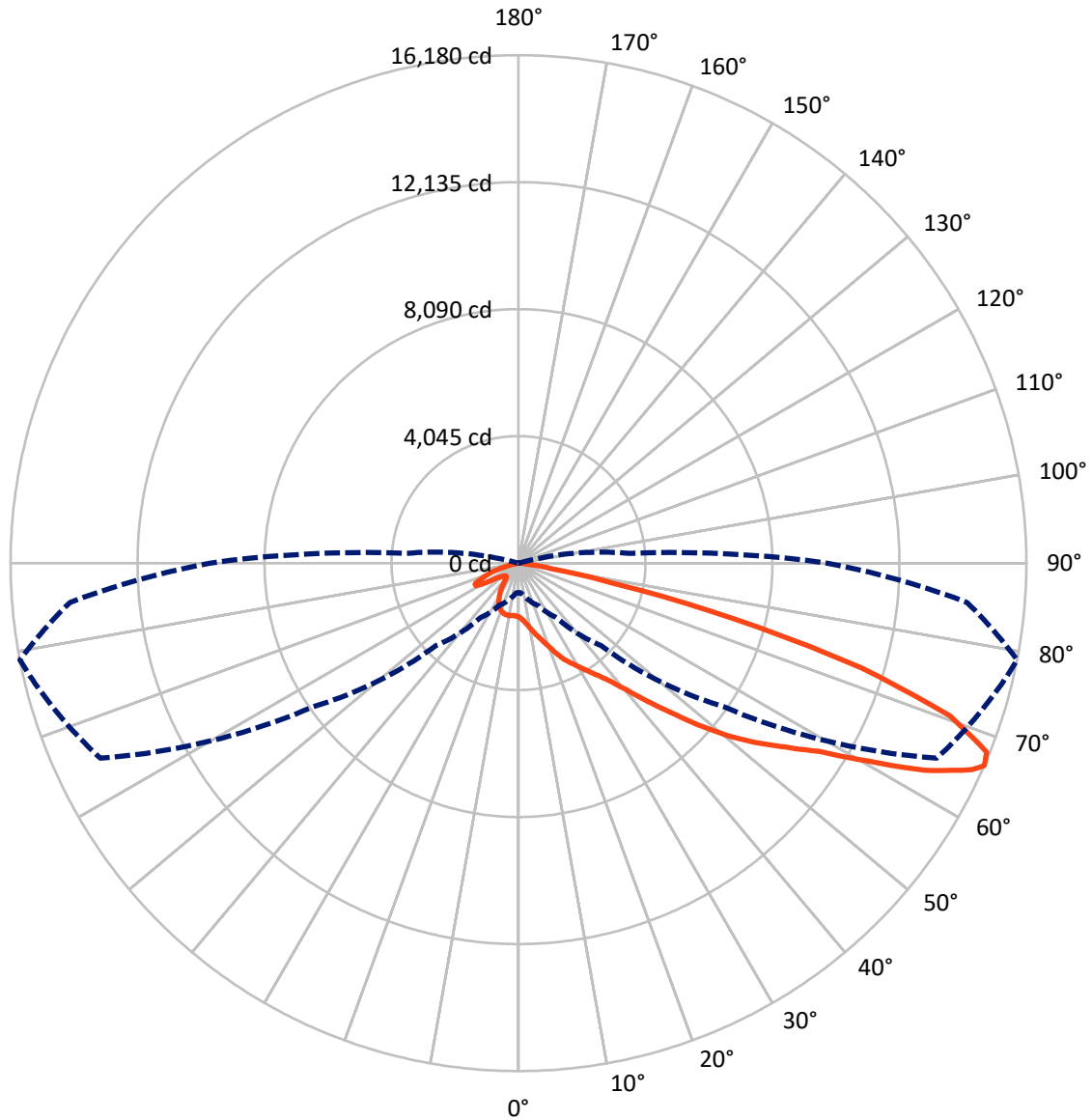
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481570
CATALOG NUMBER: IFLD-M-SA4B-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481570
 CATALOG NUMBER: IFLD-M-SA4B-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.8	0.0	1032.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12722.3	0.0	12722.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	13755.1	0.0	13755.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	1.2
10°-20°	445.4	3.2
20°-30°	739.9	5.4
30°-40°	1270.9	9.2
40°-50°	2302.5	16.7
50°-60°	3639.5	26.5
60°-70°	3703.5	26.9
70°-80°	1412.3	10.3
80°-90°	79.2	0.6
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°	13755.1	100.0
0°-180°	13755.1	100.0



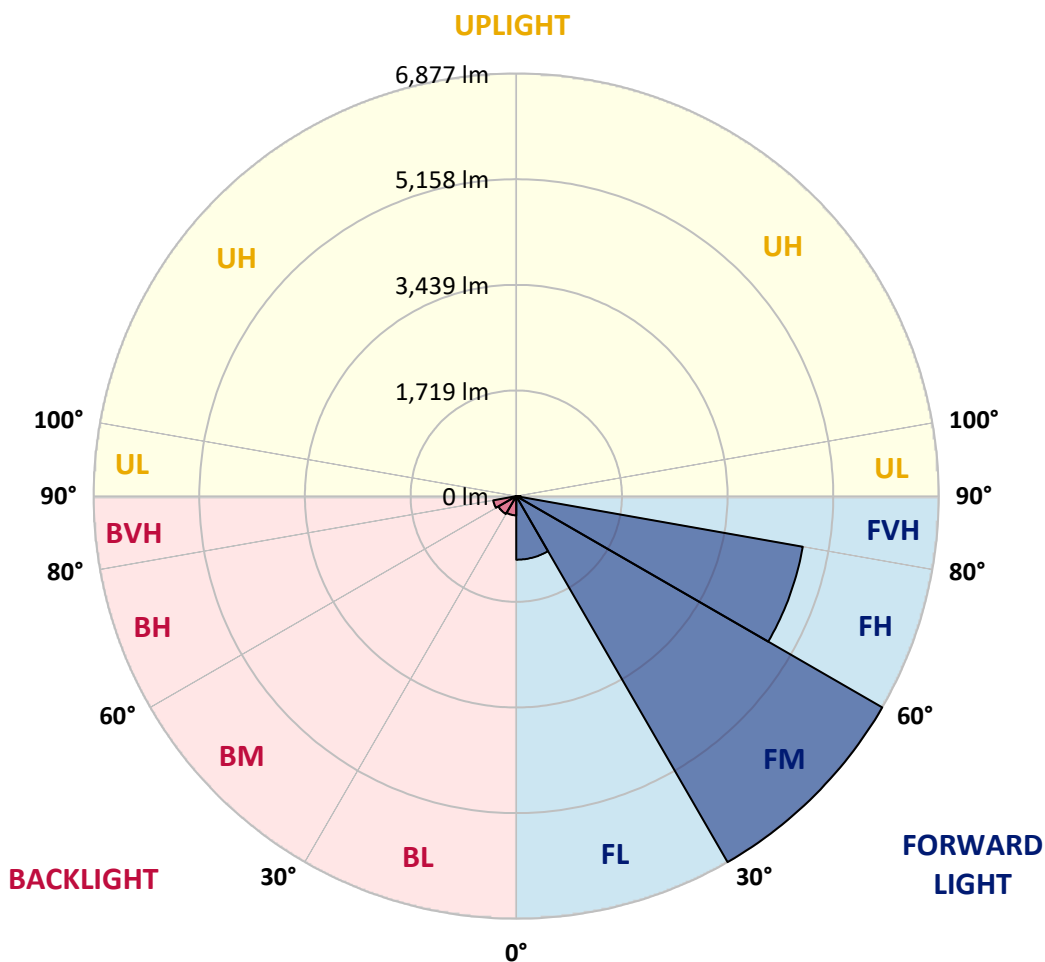
REPORT NUMBER: P481570
 CATALOG NUMBER: IFLD-M-SA4B-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.8	7.5			
FM (30°-60°)	6877.2	50.0			
FH (60°-80°)	4735.1	34.4			G2/5000
FVH (80°-90°)	75.1	0.5			G1/100
BL (0°-30°)	312.4	2.3	B1/500		
BM (30°-60°)	335.7	2.4	B1/1000		
BH (60°-80°)	380.7	2.8	B1/500		G1/500
BVH (80°-90°)	4.0	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 II Short





REPORT NUMBER: P481570

CATALOG NUMBER: IFLD-M-SA4B-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3
2.5°	1938.2	1936.1	1927.6	1912.8	1893.7	1887.3	1859.7	1821.6	1800.4	1777.0	1766.4
5°	2071.8	2061.2	2086.6	2076.0	2080.3	2029.4	1995.5	1967.9	1887.3	1855.5	1804.6
7.5°	2101.5	2112.1	2110.0	2126.9	2143.9	2163.0	2139.7	2099.4	2018.8	1972.1	1917.0
10°	2101.5	2097.2	2114.2	2137.5	2186.3	2228.7	2292.3	2239.3	2177.8	2122.7	2023.0
12.5°	2063.3	2057.0	2073.9	2122.7	2209.6	2296.6	2366.6	2417.4	2330.5	2286.0	2156.6
15°	1946.7	1940.3	2010.3	2097.2	2211.8	2353.8	2500.2	2582.9	2523.5	2453.5	2309.3
17.5°	1802.5	1811.0	1885.2	2029.4	2211.8	2381.4	2568.0	2748.3	2739.8	2650.7	2500.2
20°	1753.7	1760.1	1834.3	1938.2	2146.0	2400.5	2674.0	2928.5	2979.4	2873.4	2676.2
22.5°	1847.0	1840.7	1847.0	1910.6	2101.5	2383.5	2744.0	3134.2	3225.4	3142.7	2907.3
25°	2165.1	2160.9	2107.8	2010.3	2076.0	2345.3	2780.1	3269.9	3479.9	3403.5	3093.9
27.5°	2631.6	2614.7	2532.0	2328.4	2194.8	2368.7	2839.4	3401.4	3702.5	3615.6	3261.4
30°	3132.1	3091.8	2983.6	2729.2	2502.3	2455.6	2873.4	3498.9	3950.6	3840.3	3407.8
32.5°	3477.7	3530.7	3496.8	3238.1	2890.3	2657.1	2928.5	3621.9	4179.6	4107.5	3658.0
35°	4012.1	4073.6	3931.5	3702.5	3352.6	2977.3	3045.1	3721.6	4531.7	4410.8	3891.2
37.5°	4686.5	4733.1	4631.3	4196.6	3827.6	3371.7	3284.8	3929.4	4834.9	4777.6	4190.2
40°	5025.7	5250.5	5106.3	4714.0	4317.5	3923.1	3681.3	4173.3	5362.9	5316.3	4603.8
42.5°	5494.4	5606.8	5532.6	5242.0	4828.5	4512.6	4171.2	4648.3	6003.3	6003.3	5163.6
45°	5990.6	5994.8	5990.6	5753.1	5386.2	5223.0	4832.8	5244.2	6692.5	6768.9	5833.7
47.5°	6397.8	6525.0	6514.4	6372.3	6088.2	6026.7	5494.4	5922.7	7557.7	7691.3	6486.8
50°	6607.7	6749.8	6792.2	6866.4	6853.7	6983.0	6217.5	6709.5	8304.1	8632.8	7326.6
52.5°	6550.4	6561.0	6821.9	7114.5	7581.0	7943.6	7089.1	7602.2	9177.8	9502.3	7975.5
55°	6081.8	6041.5	6578.0	6913.1	7877.9	8531.0	8295.7	8715.5	9858.5	10352.6	8645.6
57.5°	5053.3	5063.9	5560.1	6240.8	7657.4	8764.3	9585.0	10170.2	10812.8	11311.1	9587.1
60°	3488.3	3475.6	4031.2	4817.9	6361.7	8329.6	10327.2	12055.4	12089.4	12795.5	11277.2
62.5°	1961.5	1965.8	2387.8	3060.0	4451.1	6807.0	10291.1	14057.2	13913.0	14532.3	13198.4
65°	1111.2	1138.7	1429.3	1813.1	2665.6	4569.8	8851.3	14854.6	15319.0	15870.3	14364.7
66°	939.4	958.5	1206.6	1497.1	2126.9	3706.8	7967.0	14699.8	15760.1	16179.9	14341.4
67.5°	727.4	752.8	960.6	1187.5	1560.7	2565.9	6412.6	13930.0	15840.6	16086.6	13936.4
70°	498.3	515.3	674.3	901.2	1066.6	1312.6	3834.0	11516.8	14373.2	14581.0	12112.7
72.5°	349.9	358.4	472.9	682.8	820.7	750.7	1902.1	8193.9	10999.4	11404.4	9421.7
75°	252.3	260.8	324.4	489.9	640.4	492.0	871.6	5233.6	6745.5	7063.6	5674.6
77.5°	182.4	193.0	220.5	316.0	464.4	345.7	428.4	2733.4	3180.9	3125.7	2440.8
80°	110.3	120.9	163.3	203.6	339.3	243.9	235.4	1140.9	1128.1	1070.9	767.6
82.5°	50.9	59.4	86.9	137.8	237.5	169.6	112.4	407.1	356.3	326.6	216.3
85°	14.8	19.1	50.9	103.9	120.9	82.7	67.9	140.0	146.3	125.1	72.1
87.5°	0.0	2.1	23.3	25.4	36.0	27.6	25.4	36.0	67.9	55.1	23.3
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: P481570
 CATALOG NUMBER: IFLD-M-SA4B-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3
2.5°	1728.3	1713.4	1677.4	1622.2	1573.5	1548.0	1512.0	1480.2	1463.2	1461.1	1459.0
5°	1770.7	1730.4	1643.4	1543.8	1469.6	1389.0	1333.8	1293.5	1255.4	1219.3	1240.5
7.5°	1827.9	1764.3	1622.2	1492.9	1331.7	1227.8	1130.3	1073.0	1039.1	1007.3	1003.0
10°	1917.0	1836.4	1607.4	1374.1	1189.6	1037.0	937.3	854.6	807.9	752.8	774.0
12.5°	2037.9	1893.7	1552.3	1266.0	1028.5	867.3	725.2	591.6	517.4	460.2	462.3
15°	2158.7	1970.0	1501.4	1134.5	882.2	670.1	462.3	371.1	349.9	337.2	341.4
17.5°	2277.5	2031.5	1422.9	1000.9	714.6	426.2	337.2	318.1	307.5	294.8	294.8
20°	2421.7	2071.8	1325.4	877.9	492.0	316.0	288.4	275.7	258.7	241.7	243.9
22.5°	2561.6	2105.7	1213.0	721.0	330.8	273.6	241.7	224.8	209.9	193.0	193.0
25°	2701.6	2116.3	1066.6	517.4	267.2	218.4	188.7	165.4	150.6	135.7	137.8
27.5°	2797.0	2050.6	928.8	330.8	214.2	165.4	131.5	112.4	99.7	84.8	84.8
30°	2852.2	1929.7	780.4	233.3	161.2	112.4	78.5	59.4	46.7	36.0	33.9
32.5°	2907.3	1832.2	612.8	178.1	106.0	59.4	29.7	10.6	0.0	0.0	0.0
35°	3017.6	1721.9	411.4	99.7	36.0	2.1	0.0	0.0	0.0	0.0	0.0
37.5°	3087.5	1569.2	188.7	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3263.6	1492.9	46.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3549.8	1439.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3863.7	1418.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4281.4	1475.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4722.5	1630.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5206.0	1777.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5628.0	1953.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6404.1	2368.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7797.3	3185.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9366.6	3791.6	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9941.2	3776.7	40.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9839.4	3568.9	40.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9311.4	3170.2	36.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7996.7	2618.9	36.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6096.6	2040.0	33.9	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3679.2	1085.7	27.6	10.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1465.3	381.7	21.2	8.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	396.5	114.5	12.7	8.5	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	103.9	42.4	10.6	8.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
85°	40.3	17.0	8.5	6.4	6.4	4.2	2.1	0.0	0.0	0.0	0.0
87.5°	12.7	6.4	6.4	4.2	4.2	2.1	2.1	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)