

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: P595370

Luminaire Tested: **IST-PA1F-735-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1F-735-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8469 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

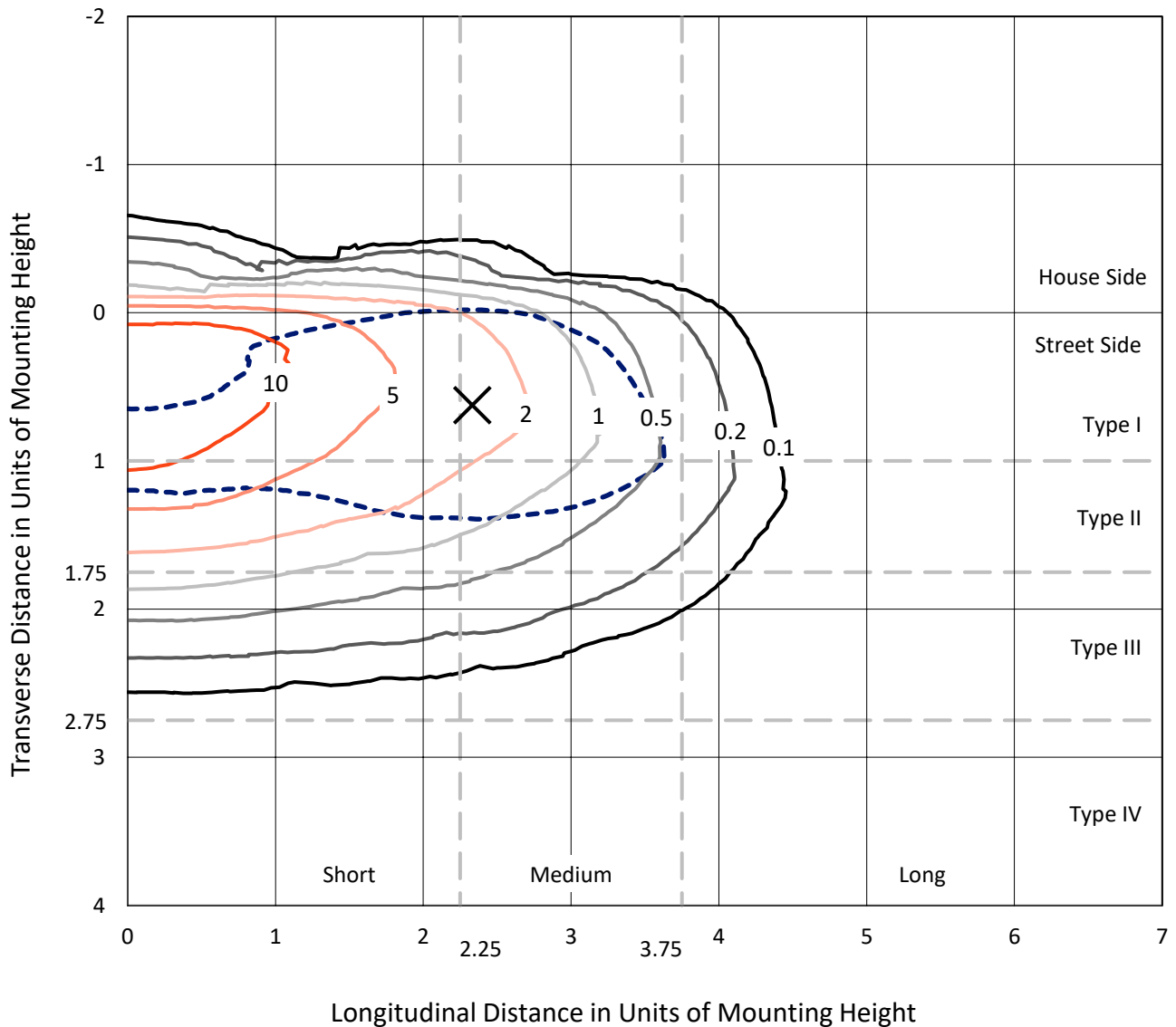
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

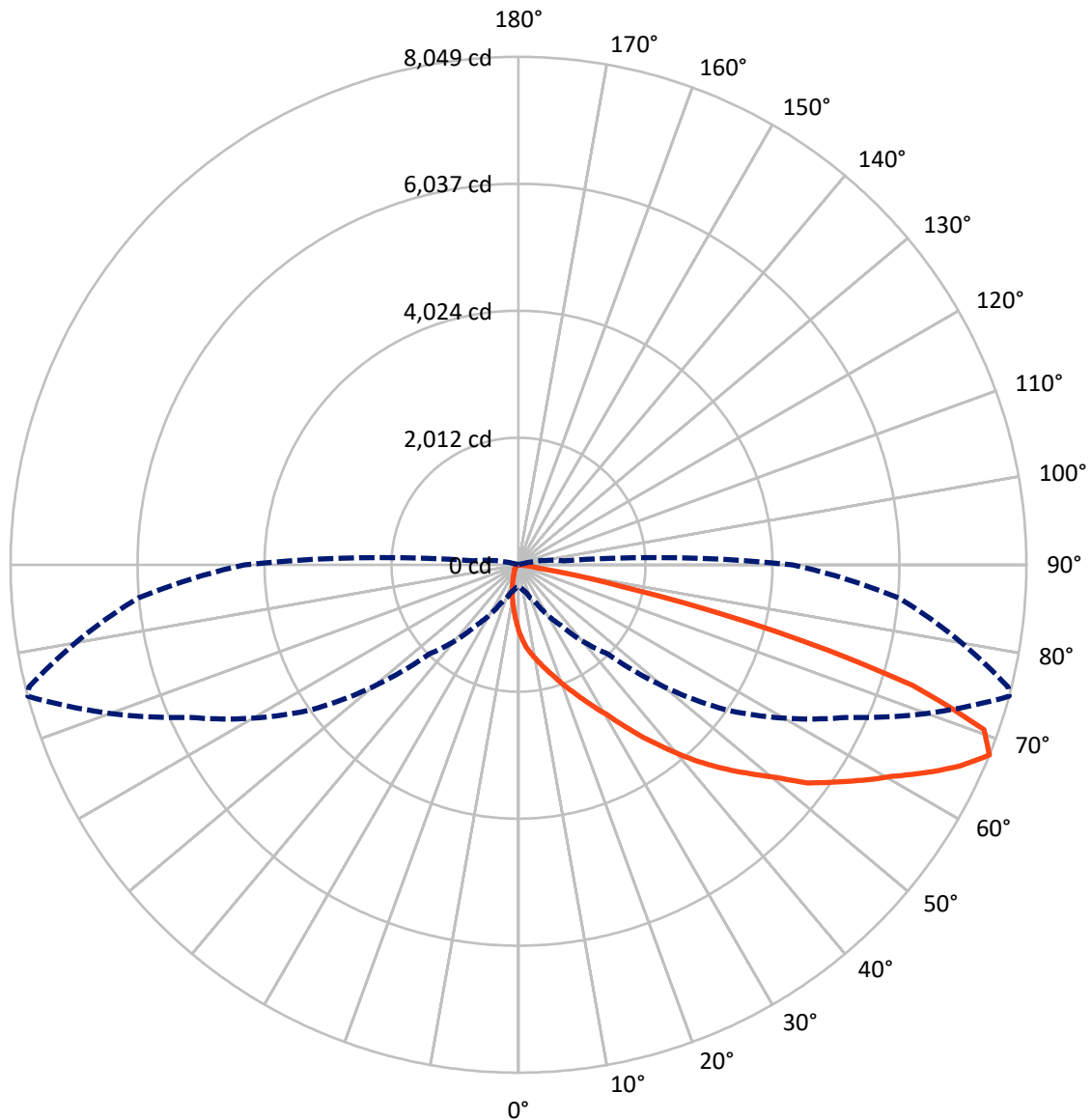
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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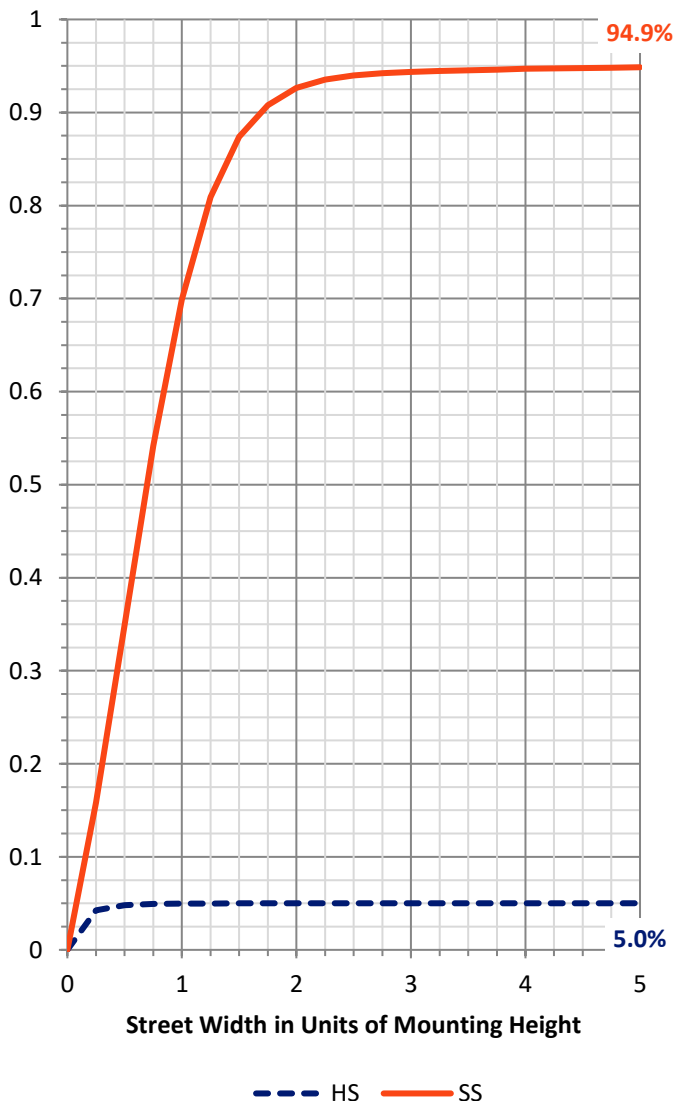
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	426.9	0.0	426.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	8042.1	0.0	8042.1
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	8469.0	0.0	8469.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	1.1
10°-20°	306.4	3.6
20°-30°	615.8	7.3
30°-40°	1164.8	13.8
40°-50°	1742.5	20.6
50°-60°	2011.8	23.8
60°-70°	1783.3	21.1
70°-80°	720.8	8.5
80°-90°	28.7	0.3
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°	8469.0	100.0
0°-180°	8469.0	100.0

**Coefficient of Utilization**

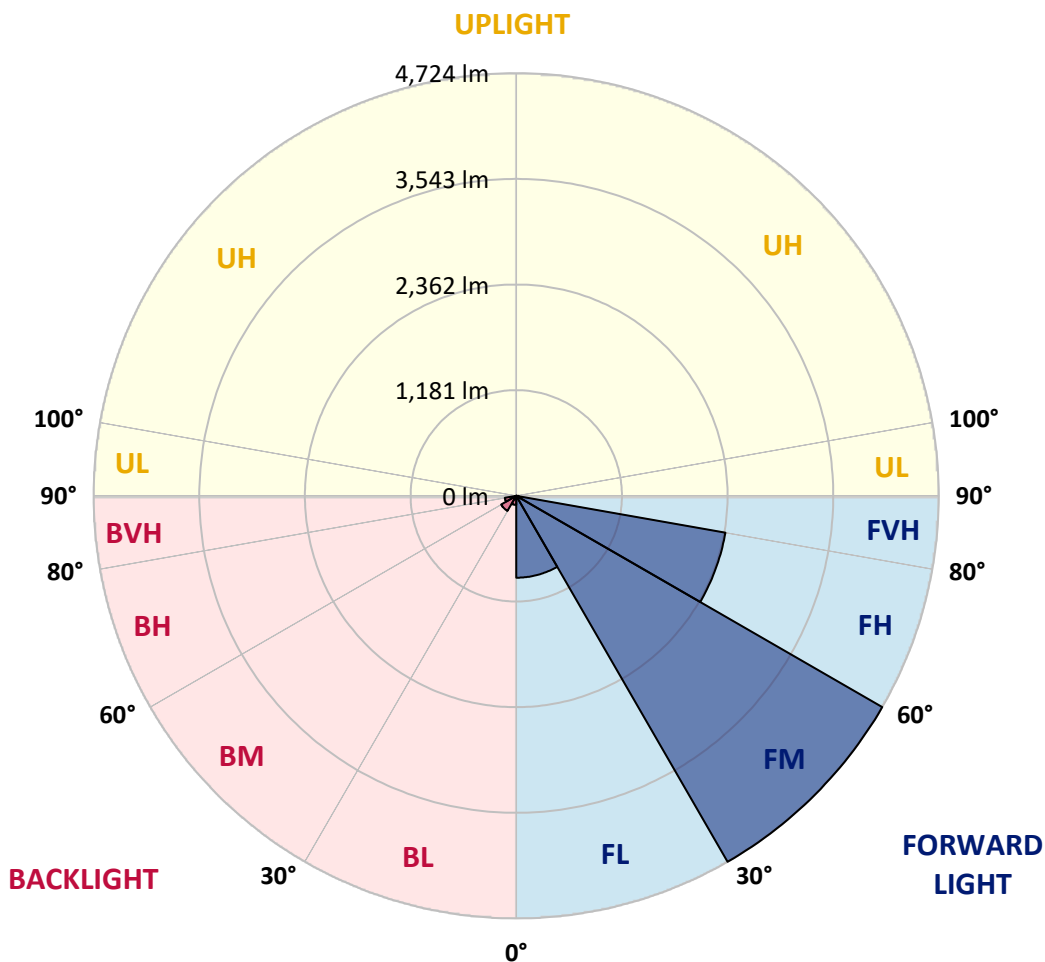


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.6	10.8			
FM (30°-60°)	4724.3	55.8			
FH (60°-80°)	2374.6	28.0			G2/5000
FVH (80°-90°)	27.5	0.3			G1/100
BL (0°-30°)	101.5	1.2	B0/110		
BM (30°-60°)	194.8	2.3	B0/220		
BH (60°-80°)	129.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5
2.5°	1464.3	1469.4	1459.3	1436.4	1416.0	1367.7	1329.6	1261.0	1187.2	1187.2	1098.3
5°	1637.2	1632.1	1627.0	1609.3	1594.0	1553.3	1502.5	1428.8	1314.3	1304.2	1156.7
7.5°	1721.1	1716.0	1705.9	1698.2	1698.2	1670.3	1622.0	1545.7	1418.6	1408.4	1210.1
10°	1820.3	1810.1	1810.1	1789.8	1784.7	1751.6	1726.2	1660.1	1520.3	1507.6	1271.1
12.5°	1937.2	1927.0	1929.6	1911.8	1904.2	1868.6	1833.0	1769.4	1629.6	1616.9	1342.3
15°	2003.3	1998.2	2013.5	2016.0	2021.1	1990.6	1957.5	1891.4	1751.6	1733.8	1426.2
17.5°	2041.4	2041.4	2059.2	2092.3	2130.4	2112.6	2087.2	2033.8	1876.2	1866.0	1515.2
20°	2115.2	2107.5	2138.0	2168.6	2216.9	2232.1	2224.5	2183.8	2026.2	1995.7	1611.8
22.5°	2237.2	2227.0	2255.0	2293.1	2351.6	2356.7	2361.8	2341.4	2178.7	2148.2	1713.5
25°	2524.5	2499.0	2473.6	2468.5	2491.4	2511.8	2496.5	2511.8	2351.6	2323.6	1822.8
27.5°	3083.8	3040.5	2918.5	2783.8	2689.7	2707.5	2659.2	2687.2	2549.9	2514.3	1924.5
30°	3620.2	3577.0	3477.8	3238.8	3022.8	2926.1	2855.0	2844.8	2753.3	2712.6	2041.4
32.5°	3993.9	3965.9	3899.8	3739.7	3470.2	3223.6	3086.3	3038.0	3025.3	2961.7	2191.4
35°	4248.1	4222.7	4176.9	4047.3	3849.0	3574.4	3338.0	3231.2	3327.8	3251.6	2361.8
37.5°	4400.7	4382.9	4332.0	4243.0	4136.3	3955.8	3650.7	3480.4	3632.9	3561.7	2580.4
40°	4512.5	4466.8	4431.2	4362.5	4326.9	4268.5	4006.6	3739.7	3963.4	3889.7	2796.5
42.5°	4522.7	4502.3	4474.4	4433.7	4438.8	4476.9	4385.4	4039.7	4296.4	4227.8	3025.3
45°	4520.1	4499.8	4479.5	4438.8	4464.2	4606.6	4690.5	4354.9	4621.8	4550.7	3266.8
47.5°	4446.4	4431.2	4436.2	4436.2	4469.3	4662.5	4926.9	4675.2	4947.2	4878.6	3559.2
50°	4187.1	4202.4	4304.1	4357.4	4415.9	4665.1	5092.2	5010.8	5298.1	5249.8	3841.4
52.5°	3366.0	3452.4	3864.2	4146.4	4316.8	4614.2	5198.9	5364.2	5743.0	5669.2	4161.7
55°	2572.8	2577.9	2974.4	3630.4	4121.0	4522.7	5259.9	5603.1	6081.1	6040.4	4443.9
57.5°	2087.2	2084.7	2280.4	2870.2	3612.6	4377.8	5275.2	5778.6	6439.6	6363.3	4769.3
60°	1705.9	1695.7	1812.6	2176.2	2951.6	4037.1	5219.3	5920.9	6808.2	6780.2	5109.9
62.5°	1233.0	1243.2	1398.2	1680.4	2275.3	3409.2	5099.8	5964.1	7253.1	7225.1	5491.3
65°	709.3	739.8	910.1	1210.1	1744.0	2666.8	4759.1	5931.1	7687.8	7685.3	5844.7
67.5°	355.9	358.5	450.0	676.2	1172.0	1995.7	4006.6	5722.6	8048.8	7992.9	6048.0
70°	228.8	233.9	264.4	348.3	648.3	1383.0	3060.9	5132.8	7822.5	7802.2	5750.6
72.5°	175.4	180.5	205.9	228.8	338.1	785.6	2071.9	3988.8	6531.1	6475.1	4484.6
75°	137.3	139.8	165.2	185.6	226.3	368.6	1039.8	2486.3	4207.4	4062.5	2552.4
77.5°	109.3	111.9	124.6	147.5	172.9	205.9	307.6	1118.6	1710.9	1527.9	828.8
80°	71.2	73.7	94.1	114.4	147.5	134.7	119.5	322.9	366.1	330.5	147.5
82.5°	40.7	43.2	63.6	91.5	111.9	76.3	68.6	94.1	86.4	83.9	45.8
85°	12.7	12.7	43.2	63.6	50.8	22.9	43.2	33.0	28.0	25.4	15.3
87.5°	2.5	2.5	20.3	22.9	7.6	2.5	5.1	7.6	10.2	12.7	7.6
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°	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5
2.5°	1055.0	1004.2	910.1	828.8	750.0	681.3	633.0	589.8	559.3	551.7	539.0
5°	1062.7	963.5	783.0	630.5	498.3	391.5	330.5	289.8	269.5	256.8	256.8
7.5°	1070.3	922.8	663.5	460.1	315.2	239.0	200.8	183.0	175.4	172.9	170.3
10°	1085.5	892.3	561.8	330.5	216.1	180.5	165.2	157.6	152.5	150.0	150.0
12.5°	1111.0	866.9	467.8	244.1	178.0	160.2	150.0	139.8	134.7	132.2	132.2
15°	1144.0	849.1	386.4	195.8	162.7	144.9	132.2	122.0	114.4	111.9	111.9
17.5°	1189.8	836.4	317.8	172.9	150.0	129.7	114.4	104.2	96.6	94.1	94.1
20°	1235.5	836.4	261.9	160.2	137.3	114.4	99.1	86.4	78.8	76.3	76.3
22.5°	1296.6	833.9	218.6	147.5	122.0	99.1	83.9	68.6	63.6	61.0	61.0
25°	1347.4	833.9	188.1	134.7	106.8	86.4	68.6	55.9	50.8	48.3	48.3
27.5°	1408.4	826.2	160.2	119.5	91.5	71.2	55.9	45.8	40.7	38.1	38.1
30°	1461.8	816.1	142.4	106.8	78.8	58.5	45.8	35.6	33.0	33.0	33.0
32.5°	1550.8	808.4	127.1	91.5	66.1	48.3	35.6	28.0	25.4	25.4	25.4
35°	1657.6	808.4	116.9	78.8	55.9	40.7	28.0	22.9	20.3	20.3	20.3
37.5°	1797.4	816.1	104.2	68.6	45.8	33.0	22.9	17.8	15.3	15.3	15.3
40°	1944.8	833.9	94.1	61.0	40.7	25.4	17.8	12.7	10.2	12.7	12.7
42.5°	2120.2	851.7	83.9	53.4	33.0	20.3	12.7	7.6	5.1	7.6	7.6
45°	2293.1	869.5	78.8	45.8	28.0	15.3	7.6	5.1	2.5	5.1	5.1
47.5°	2506.7	912.7	73.7	40.7	22.9	12.7	5.1	2.5	0.0	2.5	2.5
50°	2753.3	961.0	66.1	33.0	17.8	10.2	5.1	0.0	0.0	0.0	0.0
52.5°	2989.7	1001.7	58.5	28.0	15.3	7.6	2.5	0.0	0.0	0.0	0.0
55°	3226.1	1027.1	50.8	22.9	12.7	7.6	2.5	0.0	0.0	0.0	0.0
57.5°	3480.4	1042.3	45.8	20.3	10.2	5.1	2.5	0.0	0.0	0.0	0.0
60°	3762.5	1042.3	38.1	17.8	7.6	5.1	2.5	0.0	0.0	0.0	0.0
62.5°	4075.2	1011.8	35.6	15.3	7.6	5.1	2.5	0.0	0.0	0.0	0.0
65°	4329.5	902.5	30.5	12.7	7.6	5.1	2.5	0.0	0.0	0.0	0.0
67.5°	4339.6	714.4	28.0	10.2	7.6	5.1	2.5	0.0	0.0	0.0	0.0
70°	3869.3	488.1	22.9	7.6	5.1	5.1	2.5	0.0	0.0	0.0	0.0
72.5°	2895.6	261.9	20.3	7.6	5.1	2.5	2.5	0.0	0.0	0.0	0.0
75°	1560.9	101.7	12.7	7.6	5.1	2.5	2.5	0.0	0.0	0.0	0.0
77.5°	455.1	50.8	7.6	5.1	5.1	2.5	2.5	0.0	0.0	0.0	0.0
80°	83.9	25.4	5.1	5.1	5.1	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	10.2	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	10.2	5.1	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.5	2.5	2.5	2.5	2.5	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)