

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: P157263

Luminaire Tested: **VTS-F07-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157263
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F07-LED-E1-5MQ-8030
Description: VENTUS LED SITE LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

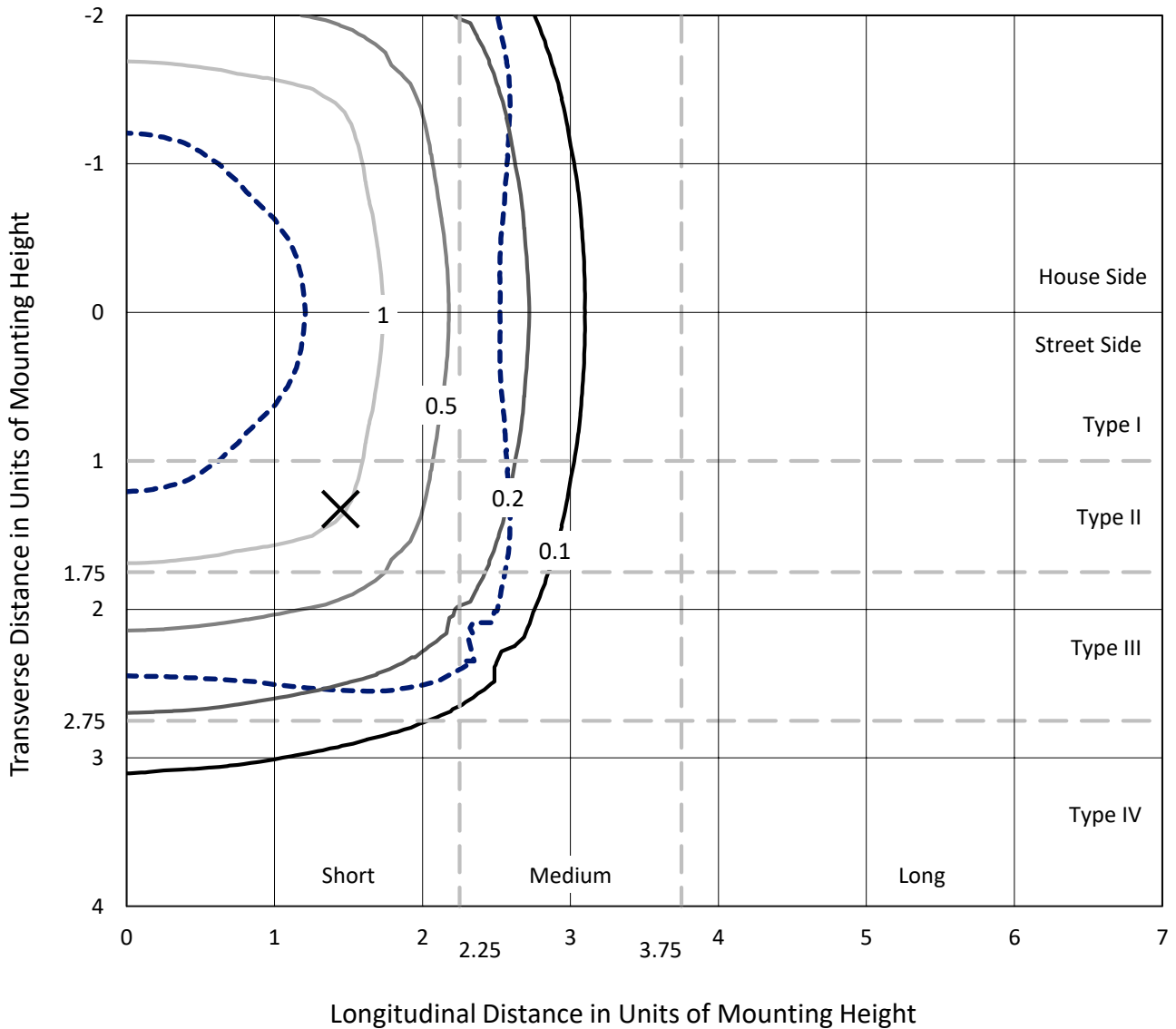
Lumens per Lamp: N/A
Luminaire Lumens: 15601.3 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 180.5
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

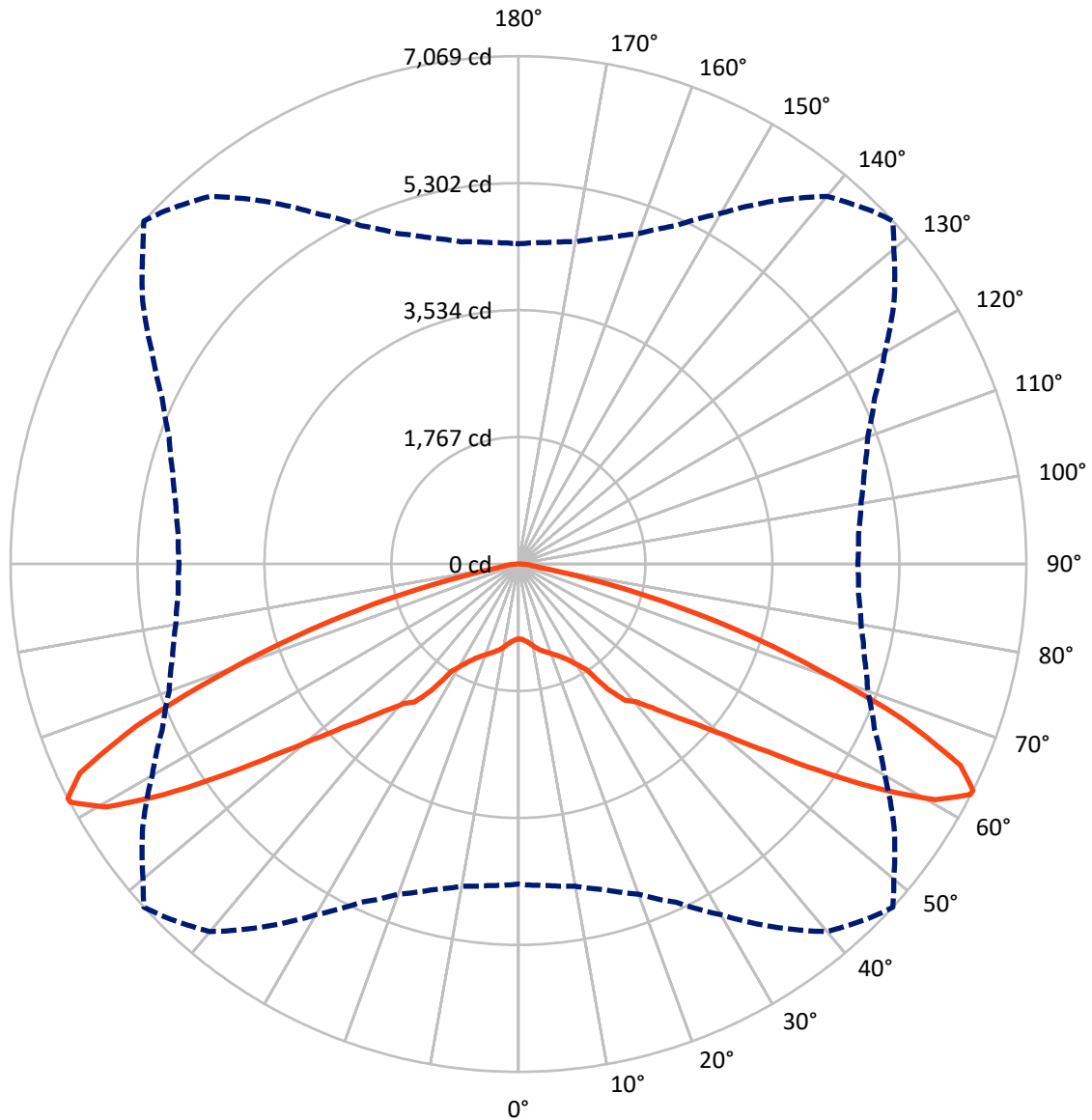
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7800.7	0.0	7800.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7800.7	0.0	7800.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15601.3	0.0	15601.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	0.7
10°-20°	355.5	2.3
20°-30°	680.0	4.4
30°-40°	1300.9	8.3
40°-50°	2250.9	14.4
50°-60°	4042.5	25.9
60°-70°	4915.8	31.5
70°-80°	1775.3	11.4
80°-90°	175.8	1.1
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°	15601.3	100.0
0°-180°	15601.3	100.0



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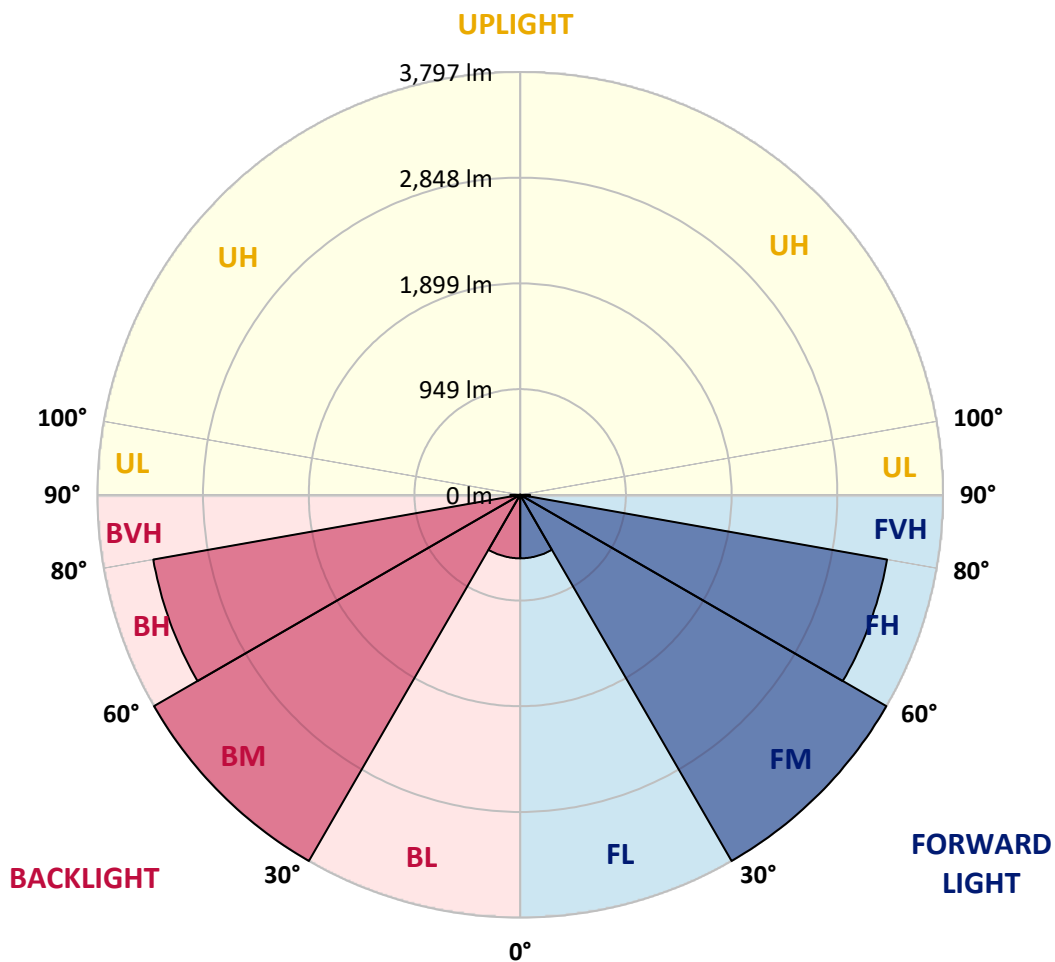
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.1	3.7			
FM	(30°-60°)	3797.1	24.3			
FH	(60°-80°)	3345.5	21.4			G2/5000
FVH	(80°-90°)	87.9	0.6			G1/100
BL	(0°-30°)	570.1	3.7	B2/1000		
BM	(30°-60°)	3797.1	24.3	B3/5000		
BH	(60°-80°)	3345.5	21.4	B4/5000		G2/5000
BVH	(80°-90°)	87.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8
2.5°	1048.6	1046.6	1047.6	1048.6	1047.6	1046.6	1046.6	1046.6	1048.6	1046.6	1051.5
5°	1069.1	1067.1	1068.1	1068.1	1068.1	1066.1	1066.1	1066.1	1065.2	1066.1	1076.9
7.5°	1108.1	1105.2	1104.2	1106.1	1104.2	1103.2	1102.2	1102.2	1100.3	1100.3	1113.9
10°	1154.9	1151.0	1153.0	1153.9	1151.0	1149.1	1149.1	1149.1	1146.1	1145.2	1162.7
12.5°	1206.6	1204.7	1204.7	1202.7	1201.7	1199.8	1198.8	1199.8	1195.9	1195.9	1213.4
15°	1256.4	1252.5	1253.4	1250.5	1248.6	1246.6	1245.6	1244.6	1242.7	1242.7	1253.4
17.5°	1302.2	1299.3	1298.3	1295.4	1292.4	1289.5	1287.6	1286.6	1283.7	1283.7	1293.4
20°	1350.0	1347.1	1345.1	1340.2	1335.4	1332.4	1328.5	1326.6	1322.7	1323.7	1334.4
22.5°	1404.6	1399.7	1395.8	1391.9	1383.2	1377.3	1372.4	1368.5	1366.6	1366.6	1381.2
25°	1477.8	1474.8	1469.0	1456.3	1445.6	1436.8	1429.0	1425.1	1421.2	1419.3	1441.7
27.5°	1567.5	1564.6	1556.8	1544.1	1529.5	1514.8	1506.1	1499.2	1494.4	1491.4	1523.6
30°	1686.5	1681.6	1674.8	1654.3	1641.6	1619.2	1609.5	1599.7	1589.0	1591.9	1629.9
32.5°	1919.6	1912.8	1891.4	1868.9	1829.9	1799.7	1768.5	1745.0	1722.6	1719.7	1760.7
35°	2131.3	2128.4	2124.5	2108.9	2094.2	2075.7	2061.1	2036.7	2016.2	2011.3	2126.4
37.5°	2245.4	2252.3	2246.4	2244.5	2244.5	2253.2	2280.6	2307.9	2327.4	2339.1	2403.5
40°	2420.0	2420.0	2413.2	2409.3	2401.5	2413.2	2424.9	2445.4	2454.2	2455.2	2520.5
42.5°	2618.1	2619.0	2612.2	2600.5	2596.6	2607.3	2622.9	2642.4	2654.1	2657.1	2733.2
45°	2838.5	2835.6	2829.7	2825.8	2828.7	2838.5	2857.0	2895.1	2912.6	2926.3	3009.2
47.5°	3077.5	3097.0	3080.4	3083.3	3083.3	3113.6	3155.5	3186.7	3215.0	3241.4	3329.1
50°	3390.6	3393.5	3396.4	3405.2	3411.1	3451.1	3503.7	3540.8	3581.8	3615.9	3759.3
52.5°	3809.1	3803.2	3817.8	3827.6	3860.8	3882.2	3970.0	4016.8	4073.4	4117.3	4327.0
55°	4309.4	4306.5	4328.0	4335.8	4379.7	4432.4	4529.9	4632.3	4728.9	4782.5	5069.3
57.5°	4668.4	4676.2	4713.3	4765.0	4850.8	4963.0	5108.3	5334.6	5518.0	5576.5	5892.6
60°	4747.4	4772.8	4828.4	4931.8	5079.1	5287.8	5573.6	5919.9	6255.4	6367.6	6664.1
62.5°	4526.0	4555.3	4637.2	4761.1	4953.2	5262.4	5675.1	6163.7	6662.2	6911.9	7061.1
63°	4455.8	4491.9	4553.3	4696.7	4891.8	5197.1	5636.0	6162.8	6679.7	6951.9	7068.9
65°	4126.1	4132.9	4224.6	4368.0	4587.4	4904.5	5347.3	5956.0	6529.5	6843.6	6762.7
67.5°	3550.6	3578.9	3655.9	3800.3	4013.9	4343.6	4824.5	5387.3	5891.6	6142.3	5780.4
70°	2868.7	2866.8	2962.4	3078.5	3266.7	3556.4	3977.8	4486.0	4885.9	5068.3	4462.6
72.5°	2049.4	1998.7	2068.9	2197.6	2351.8	2582.9	2916.5	3311.6	3669.6	3827.6	3262.8
75°	933.5	919.8	982.3	1110.0	1266.1	1471.9	1746.0	2087.4	2430.8	2616.1	2078.6
77.5°	314.1	318.0	342.4	388.2	472.1	575.5	746.2	964.7	1242.7	1426.1	975.4
80°	210.7	216.5	224.3	231.2	240.9	256.5	293.6	350.2	436.0	527.7	308.2
82.5°	172.7	179.5	197.0	204.8	210.7	215.6	218.5	222.4	222.4	224.3	195.1
85°	123.9	135.6	159.0	173.6	179.5	183.4	188.3	194.1	185.3	177.5	151.2
87.5°	42.9	58.5	85.8	94.6	101.4	102.4	109.2	121.0	115.1	93.6	45.8
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8
2.5°	1046.6	1045.7	1046.6	1047.6	1047.6	1047.6	1048.6	1049.6	1049.6
5°	1066.1	1067.1	1066.1	1067.1	1067.1	1068.1	1068.1	1070.0	1070.0
7.5°	1099.3	1101.3	1100.3	1102.2	1102.2	1104.2	1103.2	1106.1	1106.1
10°	1144.2	1146.1	1148.1	1149.1	1148.1	1150.0	1152.0	1153.0	1152.0
12.5°	1194.9	1195.9	1194.9	1196.9	1196.9	1198.8	1198.8	1201.7	1201.7
15°	1241.7	1240.7	1239.8	1242.7	1244.6	1245.6	1247.6	1250.5	1247.6
17.5°	1283.7	1284.6	1282.7	1285.6	1289.5	1292.4	1294.4	1298.3	1297.3
20°	1325.6	1323.7	1325.6	1330.5	1334.4	1338.3	1342.2	1348.0	1347.1
22.5°	1366.6	1368.5	1373.4	1377.3	1384.1	1390.0	1394.9	1402.7	1405.6
25°	1424.1	1424.1	1431.9	1436.8	1446.6	1454.4	1465.1	1473.9	1478.8
27.5°	1497.3	1497.3	1506.1	1516.8	1531.4	1545.1	1556.8	1568.5	1566.5
30°	1596.8	1601.7	1609.5	1623.1	1642.6	1659.2	1674.8	1686.5	1687.5
32.5°	1727.5	1733.3	1756.7	1791.9	1832.8	1864.0	1887.5	1915.7	1919.6
35°	2024.0	2038.6	2068.9	2097.2	2113.8	2132.3	2144.0	2145.0	2146.9
37.5°	2336.2	2310.8	2287.4	2265.9	2256.2	2254.2	2254.2	2258.1	2260.1
40°	2450.3	2437.6	2426.9	2413.2	2417.1	2416.1	2423.0	2428.8	2432.7
42.5°	2645.4	2635.6	2625.9	2608.3	2618.1	2615.1	2624.9	2633.7	2638.5
45°	2917.5	2887.3	2865.8	2837.5	2847.3	2841.4	2841.4	2852.2	2854.1
47.5°	3217.9	3182.8	3138.9	3103.8	3092.1	3081.4	3091.1	3091.1	3080.4
50°	3577.9	3535.9	3484.2	3427.7	3408.2	3397.4	3401.3	3406.2	3376.0
52.5°	4066.6	4019.7	3946.6	3860.8	3842.2	3833.4	3831.5	3824.7	3816.9
55°	4728.9	4641.1	4551.4	4438.2	4404.1	4394.3	4395.3	4387.5	4406.0
57.5°	5510.2	5381.4	5174.7	5037.1	4955.2	4924.0	4895.7	4884.0	4885.0
60°	6283.7	6021.3	5712.1	5472.2	5300.5	5191.2	5105.4	5057.6	5043.9
62.5°	6782.2	6369.6	5905.3	5516.1	5234.2	5053.7	4918.1	4832.3	4805.0
63°	6821.2	6384.2	5887.7	5470.2	5173.7	4984.4	4842.0	4753.3	4724.0
65°	6736.3	6236.9	5658.5	5161.0	4836.2	4626.5	4472.3	4388.5	4366.0
67.5°	6076.9	5661.4	5072.2	4558.2	4230.4	4017.8	3841.2	3761.3	3735.9
70°	4943.5	4658.7	4175.8	3736.9	3431.6	3226.7	3048.2	2981.9	2980.9
72.5°	3664.7	3295.0	3007.2	2685.4	2419.1	2256.2	2101.1	2026.9	1989.9
75°	2423.9	2027.9	1706.0	1434.9	1169.5	1023.2	848.6	773.5	729.6
77.5°	1221.2	905.2	648.7	449.7	349.2	286.8	262.4	249.7	248.7
80°	406.8	305.3	262.4	245.8	240.9	241.9	239.0	234.1	228.3
82.5°	225.3	237.0	239.0	232.2	232.2	228.3	224.3	205.8	196.1
85°	193.1	212.6	214.6	210.7	209.7	203.9	197.0	171.7	157.0
87.5°	121.0	139.5	136.6	121.9	134.6	125.8	119.0	77.1	56.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)